

Yingli Energy Development Co., Ltd.

2022 Environmental, Social and Governance (ESG) Report

SGS-CSTC Standards Technical Services Co., Ltd.

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About the Report

The Report is the first Environmental, Social and Governance Report (hereinafter referred to as the "ESG Report" or "Report") of Yingli Energy Development Co., Ltd. (hereinafter referred to as the "Yingli Solar", "Company" or the "Headquarters"). For internal and external stakeholders of the Company, the Report fully discloses the measures and performance of the Company to implement ESG concept and promote sustainable development of economy, environment and society.

Reporting Standard

The Report was prepared mainly in accordance with the Global Reporting Initiative Standards (GRI Standards) and at the same time, made extensive reference to the Governance Reporting Guide of Stock Exchange of Hong Kong Limited, the Corporate Social Responsibility Reporting Guidelines (CASS-CSR 4.0) of Chinese Academy of Social Sciences and other relevant guidelines and requirements.

Reporting Scope

The Report is an annual report, covering the period from January 1, 2022, to December 31, 2022. In order to enhance the comparability and completeness of the Report, some contents and data may exceed the above period.

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

2022 Environmental, Social and Governance (ESG) Report of Yingli Energy Development Co., Ltd.

Yingli Energy Development (Li County) Co., Ltd. (hereinafter referred to as the "Li

County Base"), Address: High-tech Industrial Park, Yongsheng North Street, Li County,

Baoding City, Hebei Province, China.

Reporting Principles

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.

Publication

As an independent Environmental, Social and governance (ESG) report, the Report is

released in Chinese and English version and in electronic form.

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/.

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Message from the Management

2022 marked the year when Yingli Energy Development Co., Ltd. spread its wings and flew after its rebirth. Looking back on this year, with the strong support of shareholders, the joint efforts of all employees, and the full cooperation of all stakeholders in society, the Company established the standardized corporate governance structure and operation and management structure, and made significant progress in market development, capacity construction, brand building, scientific and technological research and development, cost reduction and efficiency increase, basic management and other aspects, and achieved excellent results in doubling production and sales and making profits in the first year.

Consolidate the foundation, improve governance and accumulate internal strength. The Company established and improved the corporate governance structure of compliance, formed the corporate organizational structure with clear responsibilities and refined levels, strengthened the establishment and improvement of systems and processes, improved scientific management capabilities and internal control management level, attached importance to business ethics and anti-corruption, and laid a solid foundation for the sustainable and healthy development of the enterprise. In 2022, the Company achieved economic growth with steady operation, and won honors such as Bloomberg New Energy Finance Tier 1 Module Manufacturer and RETC "Best Performance of the Year".

Enhance energy and gather wisdom, and drive development with scientific and technological innovation. The Company made great efforts to create the green application and power system, continuously invested in product research and development, process improvement, etc., focused on N-type high-efficiency technology, presided over and participated in the formulation of photovoltaic industry standards, continued to promote the progress of the green power industry, actively responded to the global governance of climate change, and contributed photovoltaic technology and wisdom to ensure the security of green and efficient energy supply and demand and achieve the carbon peaking and carbon neutrality goals. In 2022, the Company applied for a total of 100 patents and obtained 50 patent authorizations, with a record high in the number of applications and

authorizations.

Give priority to the environment and draw a picture with green and low-carbon. The Company deeply integrated the concept of green environmental protection into all aspects of production and operation, continuously strengthened environmental management, adhered to the concept of energy conservation and consumption reduction, optimized resource and energy use, strengthened greenhouse gas emissions and waste management, practiced green manufacturing, advocated green office, carried out environmental protection charity activities, and called on employees to pay attention to ecological environmental protection. In 2022, the Company strictly adhered to the environment-related management system standards, promoted the low-carbon transformation, contributing to the construction of the efficient, safe and green clean energy system.

Work together and enjoy the better life. Internally, the Company fully protected the legitimate rights and interests of employees internally, provided a broad career growth platform for employees, carried out employee care, cultural and sports activities, vigorously created a cultural atmosphere and working environment of "respect for knowledge and talents", and continuously enhanced employees' sense of happiness and gain. Externally, the Company adhered to quality assurance, provided customers with innovative and high-quality products and services, built a sustainable supply chain, actively carried out exchanges and cooperation with partners, supported public welfare and charity, and contributed to social development.

Long as the journey is, we will reach our destination if we stay the course; difficult as the task is, we will get the job done if we keep working at it. Yingli Solar will continue to uphold the enterprise spirit of "Responsibility, Tenacity, Innovation, High efficiency" and the core values of "Trust, Delivery, Growth, Sharing", strengthen confidence, unity and cooperation, and create a new situation and new future for the Company!

About Yingli Solar

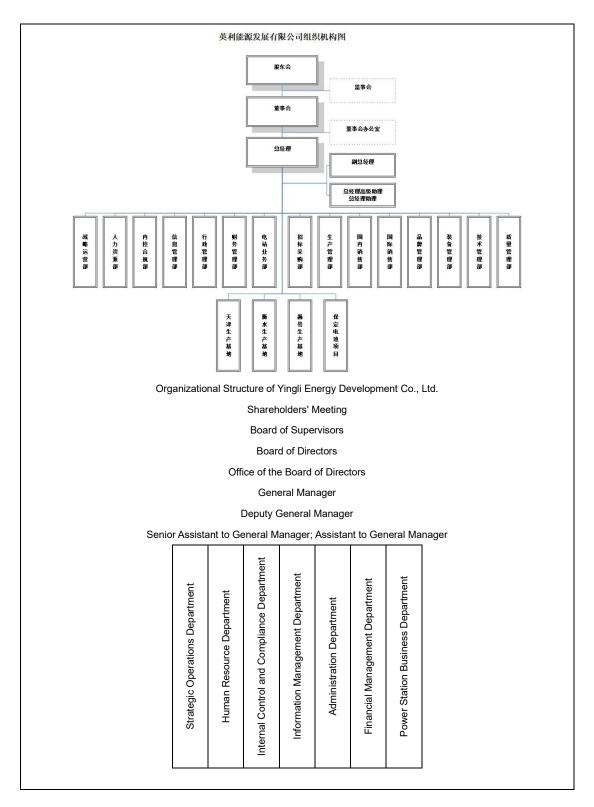
1. Company Profile

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 30GW 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 domestically and internationally advanced instruments and equipment, making its entire production process intelligent, automated, precise and efficient. Owing to its global integrated service network, Yingli Solar can provide customers with timely and accurate services in an all-round manner and strengthen cooperation with key customers. It has branches and offices in Europe, Oceania, North America, Latin America and Asia. Such local service teams and after-sales service centers around the world can respond quickly to customer needs with 48 hours.

Yingli Solar is striving for massive exploitation and utilization of green solar energy through the state-of-the-art technologies, and is committed to achieving the carbon peaking and carbon neutrality goals through photovoltaic development. Yingli Solar has always highly valued independent R&D and technological innovation. It boasts several national research platforms and PV technology laboratories. Yingli Solar is an industry leader in national patent applications for several consecutive years, with 11 PCT International patents, 2039 national patent applications, 25 scientific and technological achievements, 31 China's Programmes 863 and 973, technological support, key R&D programs, etc. It presided over and participated in the compilation of 118 Chinese and international standards.

2. Organizational Structure



	Bidding and Purchasing Department	Production Management Department	Domestic Sales Department	International Sales Department	Brand Management Department	Equipment Management Department	Technology Management Department	Quality Management Department	
Tianjin Production Base	Hen	gshui Pr	oduction	n Base	Li Cou	ınty Prod	duction (Base	Baoding Production Base

3. History of Innovation

■ 1998-2006 Hard work and fortitude at the startup period

In 1998, Yingli Solar began to engage in the photovoltaic sector, and in the following year (1999), the Company was awarded China's first demonstration project of 3MW/a polysilicon solar cells and application systems.

■ 2007-2009 Upgrade and innovation to expand presence

The Company took the lead in the research and development of PANDA N-type highefficiency cell, which has become one of the major three cells of the kind in the world. With increasingly growing production capacity, Yingli Solar began the capital market operation.

■ 2010-2014 Pacesetter in the reform

The Company became China's first enterprise to act as the sponsor of the World Cup, with the experience of showing up at two consecutive World Cups; the Company recorded No. 1 shipment around the world for two consecutive years.

■ 2015-2021 Restructuring for development opportunities

The Company optimized the asset structure, actively figured out the way to make breakthroughs, and sought opportunities for robust development.

■ 2022- Successful transformation after tiding over thistles and thorns

Giving play to the advantages of technology and brand, Yingli Solar made self-adjustments and rose after tiding over thistles and thorns.

4. Enterprise 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			

5. Social Influence

Relying on the national scientific research platform, academician workstation and postdoctoral workstation, Yingli Solar continues to improve its core competitiveness with independent innovation. The National Technical Standard Innovation Base (Photovoltaic) is the only national technical standard innovation base in China's photovoltaic field. Yingli Solar led the development of the first Bifacial Power Generation Standard in China and the first Clean Production Evaluation System for China's photovoltaic Industry, playing a vital role in improving China's power of voice and competitiveness in the field of photovoltaic technology and helping China's photovoltaic industry take the lead in both technology and standard, rather than taking the leadership in technology only.

National Energy Administration	National Key Laboratory of Energy Photovoltaic Technology	国家能源光伏技术 重点实验室
Ministry of Science and Technology of the People's Republic of China	National Key Laboratory of Photovoltaic Materials and Technology	光伏材料与技术 国家重点实验室 State Key Laboratory of Photovoltaic Materials and Technology
Ministry of Science and Technology of the People's Republic of China	International Joint Research Center of Photovoltaic Technology	国家级国际联合研究中心 National Center for International Research 中华人民会和图科学从未会 busing of Green's Assessment of Assessment of Security of Class

Standardization Administration of the People's Republic of China	National Technical Standard Innovation Base of Photovoltaic	国家技术标准创新基地(光伏) Nation Technical Standard Innovation Base of Photovolaic 中国国家标准代理维委科会 Standardization Advisoration of the Property Revoket, of Gross
National Development and		
Reform Commission (NDRC), Ministry of Science and		
Technology, Ministry of	Netice of Contifical Futuresis	国家认定
Finance, General	National Certified Enterprise	企业技术中心
Administration of Customs and	Technology Center	国家发展改革委 科 技 部 财政部 海关总署 国家税务总局
State Taxation Administration		Principle of the second of the
of the People's Republic of		
China		

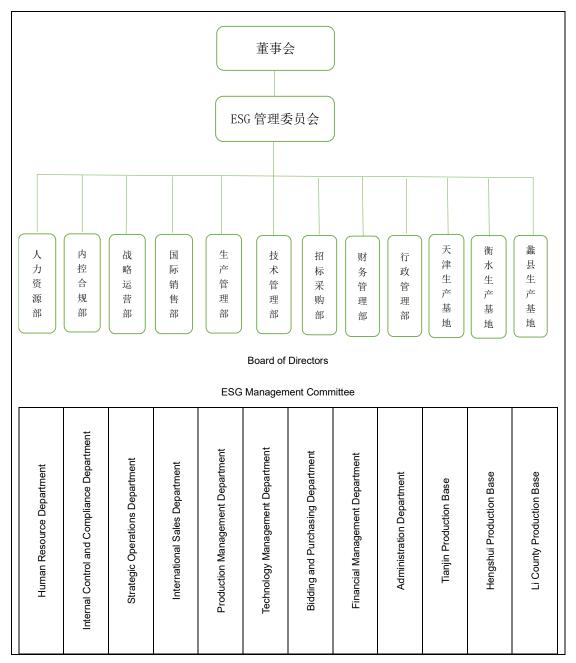
ESG Management

1. ESG Management Organizational Structure

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, with 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, and the managers of various departments and three major production bases constitute committee members, responsible for the issuance and practice of ESG management policies.

The main responsibilities of the ESG Management Committee include:

- 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.



ESG Management Organizational Structure

2. 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	Operate in compliance with the law Implement national policies	Operate in good faith and pay taxes according to the law Respond to national policies and regulations
Shareholders	Sustainable investment value Optimized corporate governance Earnings Growth	Create sustainable operational value Make scientific decisions Hold shareholders' meetings
Employees	Protect legal rights and interests Value career development Care for employees physically and mentally	Sign labor contracts in compliance Conduct regular staff training Strengthen safety production inspections
Customers	Provide quality products and services Protect customer rights and privacy	Optimize quality management system Conduct product innovation and research Improve after-sales service network
Partners/Suppliers	Ensure fair competition Win-win for both sides	Carry out sunshine procurement to eliminate commercial bribery Develop supplier assessment and evaluation mechanism Carry out cooperation and communication
Serve community development Protect the ecological environment		Participate in community co-construction Save Energy, reduce emission, and strengthen the waste management Identify environmental risks and strengthen environmental information disclosure
Media/NGOs Disclose information Interact with the media		Disclose information timely through official websites, newspapers, online media and other channels Establish complete media communication mechanisms

3. Material Issues Management

To fully and accurately convey Yingli Solar's work progress in sustainable development to internal and external stakeholders, the Company identifies important internal and external issues by analyzing domestic and foreign sustainable development related standards, benchmarking the sustainable development information disclosure of enterprises in the

industry, and combining the Company's development, formed the ESG issues database, with a total of 17 ESG issues, including 4 governance issues, 9 social issues, and 4 environmental issues.

Governance issues	Social issues	Environmental issues
1.Corporate governance	5.Product quality	14.Environmental management
2.Internal control, compliance	6.R&D innovation	15.Resource management
and risk management	7.Customer Service and	16.Pollutant discharge and
3.Business ethics	Satisfaction	control
4.Economic performance and	8.Employment and Labor	17.Green operations
taxation	Guidelines	
	9.Employee grievance	
	mechanism	
	10.Occupational health and	
	safety	
	11.Staff training	
	12.Supplier Management	
	13.Community engagement	

Compliance Governance to Build a Solid Foundation for Enterprise Development

1. Corporate Governance

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.

The Company implements the rules of procedure including the Board of Directors, the Board of Supervisors and the Board of Shareholders.

The Board of Shareholders shall be the organ of authority of the Company and shall exercise the following functions and powers: (1) to decide on the business policies and investment plans of the Company; (2) to elect and replace directors and supervisors that are not appointed from representatives of staff and workers, and to decide on matters concerning the remuneration of directors and supervisors; (3) to consider and approve reports of the Board of Directors; (4) to consider and approve reports of the Board of Supervisors; (5) to consider and approve the Company's proposed annual financial budgets and final accounts; (6) to consider and approve the Company's profit distribution plans and plans for making up losses; (7) to pass resolutions on the increase or reduction of the Company's registered capital; (8) to pass resolutions on the issuance of corporate bonds; (9) to pass resolutions on matters such as the merger, division, dissolution, liquidation or change of the corporate form of the Company; (10) to amend the Articles of Association of the Company; (11) to consider and approve guarantees; (12) to consider and approve related transaction matters; (13) to consider equity incentive plans; and (14) to consider other matters that shall be decided by the Board of Shareholders according to the provisions of laws, administrative regulations, departmental rules, or the Articles of Association.

The Board of Directors shall exercise the following functions and powers: (1) to convene the shareholders' meeting and to report on its work to the shareholders' meeting; (2) to implement the resolutions of the shareholders' meeting; (3) to decide on the business plans and investment plans of the Company; (4) to formulate the company's proposed annual financial budgets and final accounts; (5) to formulate the Company's profit distribution plans and plans for making up losses; (6) to formulate plans for the Company's increase or reduction of the registered capital; (7) to formulate plans for the merger, division, dissolution or change of corporate form of the Company; (8) to decide within the authorization scope such proceedings as external investment, purchase or sale of assets, pledge, external guarantee, associated transaction; (9) to decide on the establishment of the Company's internal management organization; (10) to decide on the employment or dismissal of the General Manager and the secretary to the Board of Directors of the Company, and to decide on the employment or dismissal of the deputy managers and other senior management of the Company according to the recommendations of the General Manager and on their remuneration, reward and punishment; (11) to formulate the basic management system of the Company; (12) to formulate plans for revising the Articles of Association; and (13) to listen to the work report and check the work of the General Manager.

The Board of Supervisors shall exercise the following functions and powers: (1) to examine the Company's financial affairs; (2) to supervise the execution of company duties by the directors and the senior officers and to recommend the removal of directors and senior officers that violate laws, administrative regulations, the Articles of Association of the Company or the resolutions of general meeting; (3) when an act of a director or senior officers is harmful to the Company's interests, to require the director or senior officers to rectify such act; (4) to propose the convening of extraordinary shareholders' meeting and to convene and preside over the shareholders' meeting when the board of directors fails to perform the duties of convening and presiding over the general meeting as stipulated by the Company Law; (5) to give proposals to the shareholders' meeting; (6) to institute proceedings against the directors and senior officers in accordance with Article 151 of the

Company Law; and (7) to conduct an investigation if discovers irregularities in the operation of the Company. Where necessary, professional institutions such as accounting firms and law firms may be engaged to assist in the investigation work. The fees shall be borne by the Company.

In 2022, the Company held 4 board meetings, 1 supervisory board meeting and 4 general meetings of shareholders.

2. Internal Control Compliance and Risk Management

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.

Organizational Structure of Internal Control System

The organizational structure of the Company's internal control management system implements three-level management, namely, decision-making agency, supervision and management agency, and executive agency. (1) 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. (2) Supervision and management agency: The 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. (3) 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 and Assessment

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, and focuses on the risk control of high-risk process nodes according to the rating results.

Risk Control Activities

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.

3. Integrity and Anti-corruption

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 major accidents, emergencies, major violations of discipline and law cases of the Company and its subsidiaries, as well as petitions, reports, reports, accusations, appeals, etc. within the acceptance scope, it is necessary to report to the Internal Control and Compliance Department of the Company in a timely manner.

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.

Low-carbon Energy Wisdom to Contribute to Green Environmental Protection

1. Comprehensive Environmental Management

Yingli Solar is committed to devoting efficient green energy and contributes its wisdom and strength to achieving the goal of carbon neutrality, maintaining a green planet for mankind, and creating a better life for the public. 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 2022 version of the EHS Management Manual. Based on the system and policies, the Company determines the division of environmental protection responsibilities and management requirements, analyzes environmental risks and opportunities, carries out environmental factor identification and evaluation, strengthens environmental awareness, education and training, timely identifies the Company's applicable environmental and occupational health and safety laws, regulations and other requirements, improves environmental protection emergency response capabilities, conducts environmental performance evaluations, and promptly corrects non-compliant behaviors, so as to continuously improve and enhance the Company's comprehensive environmental management level, and strive to achieve green development.

Overall Policy Guidance

Yingli Solar takes "Yingli Solar power generation, low-carbon green energy, strictly abide by national laws and regulations, standardize enterprise management, improve safety awareness, reduce occupational risks, create a good environment, and ensure safe production" as the environmental and occupational health and safety policy, and promises to follow environmental laws and regulations and prevent pollution.

■ Functions and Responsibilities Clarification

The Company designates the Equipment Management Department as the management

department of environmental protection, and each subsidiary company designates special personnel to be responsible for environmental protection activities and submits monthly environmental management reports, so as to realize the tracking management and supervision of environmental protection major matters, daily environmental protection work, environmental protection management innovation, clean production and environmental protection work plans.

■ Project-based Environmental Management

The Company follows national and local industrial policies. In project execution, the environmental impact assessment (EIA) is conducted and efforts are made to make sure that the facilities for pollution prevention and control are designed, constructed, and utilized in tandem with the main body of the project. All in all, environmental management during project construction is continuously strengthened.

Environmental Risks and Factors Evaluation

The Company organizes environmental risk identification, evaluation and control, covering all activities, products and services of the entire Company's environmental management system, and forms the Risk and Opportunity Assessment and Response Measures Table, to strengthen the prevention and control of environmental risks in the process of production and operation. Based on the comprehensive consideration of environmental impact, important environmental factors are identified and specific control measures are planned.

■ Emergency Management

The Company prepares emergency response plans for environmental pollution accidents, establishes the emergency rescue leading group, stocks emergency response materials and equipment, regularly carries out environmental emergency response training in the Company, to better respond to environmental emergencies, avoid and minimize the losses and harms caused by environmental emergencies to the environment.

■ Environmental Performance Assessment

The Company monitors, measures, analyzes and evaluates environmental performance, regularly entrusts qualified testing agencies to monitor the waste gas, wastewater and plant

noise generated in the production process, and organizes compliance evaluation and management review.

In 2022, Yingli Solar continued to improve environmental management, while the Headquarters invested 20,000 RMB for environmental protection funds; the Tianjin Base invested 690,000 RMB and carried out two environmental emergency drills; the Hengshui Base invested 400,000 RMB and carried out one environmental emergency drill; the Li County Base invested 1.353 million RMB and carried out three environmental emergency drills. No environmental pollution accidents occurred at the Headquarters and the three bases.

In 2022, the Tianjin Base formulated the Environmental Management System, covered environmental protection work in the base's important agenda, adopted the responsibility system for environmental protection goals, paid attention to environmental protection in the production process, ensured the normal operation of environmental protection facilities and equipment through inspection, and continuously improved the environmental protection system. On December 17, 2022, the Tianjin Base passed and obtained ISO 14001:2015 Environmental Management System Certification.



ISO 14001:2015 Certification of the Tianjin Base

The Hengshui Base compiled the Environmental Compliance Obligation Identification, Evaluation List and Assessment Report to systematically evaluate the environmental governance and management operation of the base.

In order to effectively prevent the occurrence of environmental emergencies, the Li County Base formulated the Emergency Response Plan for Environmental Emergencies (2022 Edition), organized emergency plan drills for environmental emergencies, standardized and strengthened the emergency response to environmental emergencies based on the exercise process and effectiveness review, to establish the emergency response system for environmental emergencies with strong prevention, orderly command, rapid, efficient and unified coordination.



Emergency drills for hazardous waste leakage accidents conducted by the Li County Base

2. Resource Management

2.1 Water Resource Management

Water is an essential component for the society development, engaged in various fields of economic and social development. The Company attaches importance to the conservation, efficient and sustainable use of water resources in production and operation, actively promotes sustainable water resources management practices, carries out planned water use and water conservation, adheres to source optimization, reduces water waste and evaluates the consumption level of resources in new expansion projects, so as to strengthen enterprise water management.

■ 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.

In the Tianjin Base, water saving signs were posted prominently, and the responsible personnel were clearly designated to eliminate long running water and "running, bubbling, dripping and leaking" phenomena, reducing the waste of pure water and drinking water. The Li County Base applied the recycling water system and strictly controlled the freshwater recharge rate not to exceed the required standard.

Yingli Solar's Water Use in 2022

2022	Total water consumption (tons)	Total water consumption per ten thousand RMB revenue (tons/ ten thousand RMB)	
Headquarters	5,637	0.0178	
Tianjin Base	27,760	0.0861	
Hengshui Base	40,401	0.2721	
Li County Base	30,465	0.2618	

2.2 Energy Management

In order to strengthen energy management, reduce energy consumption and improve energy efficiency, the Company has formulated the Energy Management System, carried out comprehensive, all-staff and whole-process energy-saving management and energy-saving technical supervision, implemented energy planning, statistics and analysis, promoted energy-saving and consumption-reducing projects, strengthened energy-saving awareness

and education, promoted the application of energy-saving experience, adopted advanced and reasonable energy-saving processes and equipment, and improved energy utilization efficiency with scientific energy management.

Energy Distribution and Transmission

In the design stage of new construction and expansion projects, comprehensively consider the rational layout of energy distribution and transmission systems, optimize distribution and reduce transmission losses. For completed projects, analyze the energy supply parameters and propose optimization plans, determine reasonable parameters, ensure the safe and continuous supply of energy, and reduce energy operating costs.

■ 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.

■ Process Optimization and Economic Operation of Energy-Consuming Equipment

Take energy consumption as one of the important considerations, design and adjust the product production process, reasonably arrange the processes, make full use of waste heat and pressure, optimize process parameters, and reasonably reduce energy consumption. Establish the Main Energy-using Equipment Ledger and maintain it regularly to ensure the economic operation of the equipment. Prepare the Annual Energy Consumption Plan.

Energy Statistics and Analysis

Establish and regularly maintain the energy consumption statistical ledger, monthly analyze the energy consumption status of main energy-using equipment, explore energy-saving potential, and implement improvement measures.

■ Energy Conservation Project Management

Actively adopt new technologies, new processes, new materials and new equipment, promote the progress of energy-saving technology, prepare annual energy-saving project plans and the Energy-saving and Consumption-reducing Project Transformation Plans, and supervise, inspect and evaluate the implementation of energy-saving projects. Establish an energy-saving incentive mechanism to encourage employees to carry out and participate in energy-saving and consumption-reducing work.

In 2022, the Company conducted the monthly summary and analysis of energy. The Tianjin Base carried out monthly energy special analysis, weekly energy consumption analysis, timely adjusted the frequency of refrigeration pumps and other equipment, reduced system power consumption, and reduced electricity consumption by 11,000 kWh in December 2022. The Hengshui base carried out the process cooling water energy-saving optimization

technical transformation project, turned on the air curtain machine, and made full use of the existing idle air conditioner for heating. The Li County Base used process cooling water to cool the cooling tower, reduce the use of refrigerators, and use the heat of the lamination room to install exhaust fans to reduce hot gas consumption.

In September 2022, the Screw Air Compressor Upgrade Project at the Tianjin Base was put into operation, using high-efficiency two-stage screw compressors to reasonably match the demand for production compressed air, precisely control equipment loading and unloading, clean up the cooling water and oil circuit system, improve equipment operating stability, and at the same time reduce cooling demand and indirectly save energy consumption. After operation, the air pressure system can reduce electricity consumption by about 5,000-7,000 kWh per day. In addition, the Tianjin Base carried out optimization and upgrading projects for process air conditioning systems, replacing and merging power system motors, using high-efficiency motors to improve pump motor operating efficiency and equipment utilization, so as to realize energy saving and consumption reduction. After operation in October 2022, the process air conditioning auxiliary pump system can reduce electricity consumption by about 1,400 kWh per day.

3. Pollutant Discharge and Control

3.1 Greenhouse Gas Management

Global warming has been commonly acknowledged as the key environmental issue in the world. Yingli Solar deeply understands the impact of greenhouse gas emissions on the environment and ecology, and is actively committed to the inventory and control of greenhouse gas emissions based on the environmental concept of sustainable development and the obligation of corporate social responsibility, so as to slow down the global warming. The Company promises to comply with relevant environmental laws and regulations, strive to develop environmentally friendly and resource-saving products, consider the complete life cycle of products, reduce the impact of products on humans and the environment in the

process of development, production, storage, transportation, distribution and use, improve

energy efficiency, reduce environmental pollution and improve the efficiency of environmental management system, and improve employees' awareness of emission reduction through regular communication. The Company continuously promotes energy conservation and consumption reduction, creating the green business model, applies digital technology to empower the reduction of carbon emissions, develops module recycling to achieve green photovoltaics throughout the life cycle, and builds green supply chains to achieve win-win cooperation of industrial chain.

In 2022, the Company took the lead in releasing the White Paper on "Carbon Neutrality" Action Plan, and announced its carbon neutrality goal and action plan: to achieve carbon peak in 2023, and to operate carbon neutral in 2030. Moreover, it joined hands with nearly 100 enterprises in the new energy industry chain to release the Green Supply Chain Initiative for "Carbon Neutrality", promoting the green and collaborative development of the industry.



The White Paper on "Carbon Neutrality" Action
Plan



The Green Supply Chain Initiative for "Carbon Neutrality"

In accordance with the requirements of ISO 14064-1:2018 standard, the Company identified the 2022 greenhouse gas emissions of the Tianjin, Hengshui and Li County bases, and prepared the Greenhouse Gas Inventory Report, with Scope 1 emission including stationary combustion, mobile combustion, process emissions and fugitive emissions, and Scope 2 emission types including purchased electricity.

Yingli Solar's Greenhouse Gas Emissions in 2022

2022	Scope 1 direct emission (tCO ₂ e)	Scope 2 indirect emission of input energy (tCO ₂ e)	Total greenhouse gas Emission (tCO ₂ e)	Greenhouse emissions per ten thousand RMB revenue (tCO ₂ e/10,000 RMB)
Tianjin Base	232	15269.71	15501.71	0.05
Hengshui Base	471	8096.14	8567.14	0.06
Li County Base	13	7733.04	7746.04	0.07
Total	716.00	31098.89	31814.89	0.05

On the basis of the greenhouse gas inventory results, the Company realizes that indirect greenhouse gas emissions from energy are the largest greenhouse gas emissions of the three bases and shall strive to promote energy conservation activities, increase the use of variable frequency air compressors, adjust production operation mode, enhance equipment maintenance and repair, improve equipment operation efficiency, use energy-saving equipment, reduce energy losses and energy use, establish the equipment and facility energy conservation management system, and at the same time, conduct the self-assessment of potential carbon emission risks and opportunities, create green, low-carbon and sustainable business performance by adjusting industrial structure, energy structure, improving energy efficiency management, promoting carbon market construction, strengthening carbon resource management, and promoting the development of effective carbon strategies.

3.2 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 meet the standards.

In 2022, the Tianjin base, Hengshui Base and Li County Base regularly carried out discharge permit monitoring, routine testing and self-testing in accordance with pollutant monitoring requirements, commissioned third-party institutions to carry out testing of pollutant emissions from the plants and issued monitoring reports, and continuously improved pollutant treatment facilities to ensure complete pollutant treatment facilities and normal and stable operation.

■ 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, with the characteristics of high purification efficiency and low cost, capable of treating various organic waste gases and malodorous gases, degrading pollutants and reducing pollution to the environment.



Photo-oxygen activated carbon integrated equipment adopted by the Tianjin Base to collect and treat workshop exhaust gas

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, strictly prohibit the burning of asphalt, linoleum, rubber, plastic, leather, garbage and other substances that produce toxic and harmful soot and malodorous gases, adopt dust suppression measures such as regular sprinkling of water, reducing material fall, airtight yards (sheds) and material conveying devices to control unorganized dust emissions.

■ Waste Water Management

The Tianjin Base: With no industrial wastewater generation and discharge, 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: In the plant area, rainwater is discharged into the municipal rainwater network through rainwater pipes, and production and domestic sewage is discharged into the wastewater treatment station through pipes, and then discharged into the municipal sewage network after treatment to the standard. The total outlet of sewage in the plant is set up with online monitoring station and automatic monitoring equipment to ensure the discharge of water pollutants in accordance with the standards.

The Li County Base: Without production wastewater generation, 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, encourage technical innovation of production processes, improve the utilization rate of raw materials, reduce the generation of water pollutants and promote clean production.

■ 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: In the process of collecting, storing, transporting, utilizing and disposing of solid waste, attach importance to anti-dispersion, anti-erosion and anti-leakage. Recycle and utilize metal wastes generated in the process of machining and maintenance, etc., collect household wastes by classification, and recycle waste paper, waste metal, waste glass, waste plastic and other materials. Hazardous wastes of the base include waste activated carbon, reagent waste liquid, waste oil, etc. 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 general solid waste generated in the production process of the base includes waste glass, shredded battery cells, waste EVA and backing plates, unqualified battery components, etc. The hazardous waste includes waste activated carbon, waste machine oil, etc. 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% in 2022.

Solid Waste Disposal Measures of the Li County Base

Category	Solid waste	Measures	
	Unqualified cells	Recycling by upstream	
	Oriqualined cells	suppliers	
	Backing plate, EVA edge material	Recycling by resource recovery	
Non-hazardous	Backing plate, EVA edge material	companies	
industrial solid waste	Waste rubber barrel, rubber barrel	Recycling by raw material	
iliuustilai sollu waste	inner packaging bag	suppliers	
		Commissioning the sanitation	
	Dedusting ash	department for unified	
		treatment	
	Waste flux	Temporarily stored in the	
Hazardous waste	Flux-stained packaging	hazardous waste room,	
nazardous waste	Waste lubricating oil	entrusted to qualified units for	
	Waste activated carbon	regular disposal	

4. Green Development

4.1 Green Operation

Yingli Solar actively practices the concept of carbon neutrality, focuses on green energy utilization and efficiency improvement, clean and low-carbon development. With an eye on the continuous research and innovation of carbon emission reduction technology, Yingli Solar is committed to promoting the development and application of clean energy and contributing to environmental protection and green development, to create photovoltaic value and share green future together.



China's first and the world's first photovoltaic enterprise to join WWF "Climate Savers"



World's first TÜV Rheinland carbon footprint-certified photovoltaic enterprise



China's first photovoltaic enterprise to join PV CYCLE



Participated in the drafting of the first cleaner production evaluation index system in the Chinese photovoltaic industry



The first zero emission sponsor and zero emission exhibition area at the World Cup



One of the first photovoltaic enterprises to release the White Paper on Carbon Neutrality, cooperating with upstream and downstream enterprises to devote to carbon neutrality

■ Green Manufacturing

The Company focuses on photovoltaic intelligent manufacturing, and power plant development, with the industrial bases completely equipped with industry-leading equipment and process technology, where manufacturing, quality and energy management is highly automatic and intelligent interconnection and digital operation have been enabled to build technology application production lines with international leading level. Highly automated and intelligent production line technology, AGV logistics automatic transport vehicles, MES intelligent manufacturing system, automatic testing and sorting, automatic packaging line equipment, and R&D and testing equipment of the whole line, all of which constitute an "intelligent factory". 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.







Advanced module smart factory

The Tianjin Base clearly requires that clean, harmless, non-toxic or low-toxicity raw materials are preferred in the production and manufacturing process, so as to avoid pollutants and major pollution accidents.

The Li County Base actively adopts clean production processes, strives to achieve comprehensive utilization of waste, and invest a considerable proportion of funds in the R&D and application of new technologies, pollution control and prevention every year.

The Hengshui Base has completed the environmental impact assessment of the intelligent module production line reconstruction project in accordance with the regulations. It gave priority to non-toxic, harmless, easily degradable and easily recyclable materials in production, and passed the audit verification of clean production.

Clean Energy

Yingli Solar applied the photovoltaic technology to promote clean and green energy transformation. Yingli Solar's power plant segmentation involves a variety of operations and maintenance of power plants, including, but not limited to, distributed power plants, commercial power plants, county-wide distributed power plants, utility power plants, agri-PV complementary power plants, and fishery-PV complementary power plants. Through the effective combination of R&D, manufacturing and application of photovoltaic solar energy industry, the Company develops residential power plants solutions, providing high efficient N-type TOPCon products with high power generation, excellent reliability and high cost performance, survey and design solutions service for residential customers, and regards the commercial power plants as the practice basis of energy saving and emission reduction, supporting the goal of carbon peaking and carbon neutrality.

In 2022, Yingli Solar started the construction of its industrial park project, which focuses on highly efficient N-type TOPCon cell and has a capacity of 5GW. The project is designed to adopt the advanced technology for the manufacture of n-type TOPCon high-efficiency solar cells with high efficiency, low cost and high performance. The production lines adopt MES intelligent manufacturing system, AGV logistics transportation system, WMS quality management system and other intelligent platforms to achieve highly automated and low-carbon manufacturing. As expected, 7 billion kWh of clean power will be generated by the project every year, saving 870,000 tons of standard coal and reducing carbon dioxide emissions by 7 million tons each year, making positive contribution to fulfill the Dual Carbon goals of China.

4.2 Environmental Charity

The Company actively advocates green office methods, attaches importance to the awareness and education of environmental protection, energy conservation and emission reduction knowledge, organizes EHS policy, environmental system, post environmental factors and other education and training among new employees and conducts assessments, and continues to carry out environmental knowledge training, such as environmental awareness training, departmental environmental factors training, relevant environmental protection laws and regulations training, environmental accident emergency training, etc., to carry forward the concept of green and low-carbon production and life, improve the environmental awareness of employees. The Company also widely carries out green actions and engages stakeholders to contribute to sustainable development.

The bases continuously strengthen greening maintenance to create green and healthy offices and production environments. The Tianjin base incorporates greening maintenance management into the assessment to enhance the supervision of the plant environment. In the Li County Base, the greening of the production plant area and the plant boundary is mainly based on purification and greening, with tree species that purify the air and cultivation of a combination of trees, irrigation and grass to expand the greening area.



In September 2022, the Tianjin Base invited employees to participate in the Low Carbon Tour and conveyed the concept of economical, low-carbon life through walking and garbage sorting activities.



In March 2022, the Tianjin Base launched the Earth Hour Initiative to call on employees to respond to the global energy saving campaign launched by WWF and show their support for climate change action.



Dual Carbon Pioneer Activity of the Li County

Base



Earth Hour Activity at the Li County Base

Collaborative Development to Create Yingli's Prosperous Future

1. Product Quality and Service

1.1 Product Development and Innovation

Yingli Solar has always regarded independent innovation as the fundamental means to improve its core competitiveness, continued to make heavy investment in R&D and innovation, introduce and train research talents in relevant high-end industries, for a further exploration of R&D. The Company focuses on developing new technologies, new processes and new methods with independent intellectual property rights, and promotes industry progress through advanced technology research and development. Yingli Solar

has carried out competitive cutting-edge common technology research around highperformance solar cells and modules, and achieved numerous leading and impactful innovation results in the photovoltaic sector, achieving both economic and social benefits and driving the development of the industry.

Yingli PV technology laboratories have been accredited by China National Accreditation Service for Conformity Assessment (CNAS), China General Certification Center (CGC) and Shanghai Dekra Quality Certification. There are more than 150 sets of instruments and equipment which are advanced both domestically and internationally in these laboratories, with a total investment of 120 million RMB. This enables the Company to test over 200 items related to the whole industry chain ranging from silicon wafers, cells, modules to power plants while meeting the requirements of many international standards, including IEC 61215 and IEC 661730.

Yingli Solar has formed a highly professional scientific research and innovation team consisting of academic leaders, technical experts and technical engineers with reasonable structure and abundant practical experience. In 2022, the Headquarters of Yingli Solar invested 120,734,800 RMB in product R&D, with 71 R&D personnel, including 3 PhDs and 15 masters, undertook the 1.3GW High Efficiency Module Smart Manufacturing Project of Yingli Energy Development Co., Ltd., a strategic emerging industry development project in Hebei Province, and the Industrialization and Application Demonstration Project of Tunneling Passivation Battery Technology, a Baoding City Science and Technology Program. The Company led or participated in drafting 5 group standards such as the General Technical Requirements for Recycling of Crystalline Silicon Photovoltaic Modules, applied for 96 patents and 48 patents were authorized.





In 2022, Yingli Solar Technology Team participated in the China Innovation Methods Competition, in which two projects, "Quickly remove redundant diffusion layer on the surface of photovoltaic cells" and "Improve the mechanical properties of large-size photovoltaic modules", won the third prizes

In 2022, the Tianjin Base invested 114.6159 million RMB in product research and development, with 62 R&D personnel, 34 patents applied for, 28 patents authorized in the year, and carried out 6 scientific research and innovation projects, 5 of which were online process optimization projects and 1 was a new technology research project.

Research and Innovation Projects of the Tianjin Base in 2022

No.	Project	Category
1	Research on the production process of EVA-free mat for	online process optimization
	double-glass modules	
2	Research on solder joint forming technology for junction box	online process optimization
	welding	
3	Research on rapid welding technology of welding machine	online process optimization
4	Research on laminate speed-up and end-of-life control	online process optimization
5	Component production line fragmentation, degradation	online process optimization
	control optimization	
6	Development of double-glazing frameless lamination	new technology research
	process	

1.2 Product Quality Management

Yingli Solar has established the quality management system in accordance with the requirements of ISO 9001:2015 standards, including one quality manual and 39 procedure documents, 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, with the first level as quality manual,

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; the second level as procedure documents, to elaborate the specific workflow required to carry out various business activities; the third level as process product questionnaires, technical standards, inspection specifications, operating procedures, work instructions, special management systems, etc.; and the fourth level as records and forms related to product quality.

In order to determine the purpose and direction in terms of quality, the Company has established the quality policy as "Quality is the basis of survival, innovation is the source of development, and customer satisfaction is our eternal pursuit", and set annual quality goals ranging from customer satisfaction, timely product delivery, component qualification rate, and order delivery accuracy. In 2022, the product qualification rate of the Headquarters of Yingli Solar was 99.90%, that of the Tianjin Base was 99.94%, that of the Hengshui Base was 99.90% and that of the Li County Base was 99.92%.

■ Product Quality Certification

Yingli Solar actively carries out quality system certification work, and has passed ISO 9001:2015 quality management system certification and IEC 62941:2019 certification in 2022. The Tianjin Base, Hengshui Base and Li County Base have passed CQC product certification, TÜV SÜD certification and TÜV Rheinland product certification.



Quality Improvement Activities

To enhance the quality system audit ability of internal auditors, the Headquarters of Yingli Solar invited professional trainers to conduct a 2-day training in 2022. The main contents of the training were ISO 9001:2015 quality management system standards, IEC 62941:2019 PV manufacturing quality system standards and professional knowledge related to internal auditing, in which 50 participants passed the examination and obtained the internal auditor qualification certificate.

The Tianjin Base carried out two quality improvement activities respectively in March 2022

and September 2022. In March, quality pacesetter selection was carried out to improve employees' quality awareness, skill level and management level. In September, the base carried out the skill competition and the selection of advanced quality individuals according to the competition results; carried out a series of activities of quality system, combing quality documents, focusing on the two aspects of "check the gaps and improve the deficiencies, close to the reality and remove the theoretical", combing out 45 problems and adding 6 new management systems; carried out rectification activities of internal audit problems, involving 4 aspects and a total of 13 problems.



Quality Pioneer Selection in March 2022 - EVA
Replacement



Quality Pioneer Selection in March 2022 - Repiece of Welding Process

■ 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 are allowed to set aside special areas in the warehouse as "to be inspected" area, "qualified" area, "unqualified" area. After the material in the "to be inspected" area is inspected, the unqualified incoming material shall be put into the "unqualified" area and marked with unqualified logo; the qualified material shall be stocked in the "qualified" area or marked with "qualified" tags and labels.

The products in production process are 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.

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.

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, and should check whether the production conditions change and meet the process requirements randomly during the production process, and adjust immediately if abnormality is found, while the products should be isolated and marked and traced to the necessary stage, and reported to the production company technician in time.

The operators of the general process should set up the production conditions 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 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.

Quality Incident Control

In case of product quality incidents such as product scrapping, batch downgrading, batch price reduction processing and claims in the process of manufacturing, inspection and packaging, 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. After the occurrence of quality accidents, 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. The quality incident shall be handled in accordance with the four principles of "not letting go if the cause of the accident is unclear, not letting go if the responsible personnel and workers are not educated, not letting go if no practical prevention measures are taken, and not letting go if the responsible personnel is not treated".

■ Unqualified Product Control

The control of unqualified raw materials includes four categories: unqualified incoming inspection, unqualified in use, unqualified in stock and unqualified in finished product components as a result of evaluation. Unqualified incoming inspection to take the "identification - isolation - disposal" control procedures. Unqualified in use to take the "identification - isolation - determining - assessment - return - disposal" control procedures. Unqualified in stock to take the "identification - isolation - determining - disposal" control procedures. Unqualified in finished products after evaluation to take the "traceability - isolation - quality status reconfirmation - processing - claim" control procedures.

Unqualified in-process products control, mainly consists of five categories: unqualified in first inspection, unqualified in fixed-point inspection, unqualified in round inspection, unqualified in self-inspection, and unqualified after rework, and to take the "identification - isolation - communication - assessment - disposal" control procedures.

Unqualified semi-finished products control, mainly divided into two categories of unqualified in self-inspection and unqualified in random inspection, and to take the "identification - isolation - communication - assessment and disposal" control procedures.

Unqualified finished products control mainly includes unqualified products found in inspection, unqualified products found in stock, unqualified products found in delivery and

returned products by customers, etc., which are handled through the "identification - isolation - communication - assessment - disposal" control procedures.

1.3 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.

Customer Profile Creation

Record the name, address, telephone number and contact person of the customers in detail through the Customer Profile to timely communicate with customers, understand the needs and ensure customer satisfaction.

Customer Satisfaction Survey

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, aftersales service, etc., conducts statistical analysis of the survey results, and combines the customer satisfaction information obtained from other channels (such as customer complaints, daily communication with customers, feedback from media, consumer organizations, industry associations and other related parties) 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, and the summary information corresponding to the case code is recorded in the Excel database file of customer complaint information. 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.

In 2022, the Company received 4 after-sales complaints, with 100% complaint resolution rate, all of which were satisfied by customers, and the overall customer satisfaction score was 93.65, which reached the set target of 90%.

2. Sustainable Supply Chain

2.1 Responsible Procurement

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, building sustainable supply chains.

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: First, the qualification and certification review through the Supplier Capability Questionnaire for the record; Second, market research through the network and other means, fill out the Supplier Capability Evaluation Form for evaluation; Third, 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.

The Bidding and Purchasing Department shall review the Factory Inspection Report, the Supplier Capability Questionnaire and the Supplier Capability Evaluation Form, evaluate the suppliers' qualifications, and finally include the suppliers in the List of Qualified Suppliers to be Added. In case of unqualified results, the Bidding and Purchasing Department shall organize and supervise the suppliers to rectify the non-compliance items and request the rectification report, and finally transfer them to the Qualified Supplier List if qualified or stop developing suppliers.

■ 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 Reevaluation Form and the Qualified Suppliers Annual Evaluation Form.

2.2 Industry Communication and Cooperation

The Company actively engages in industry communication and learning, committed to establishing extensive and close cooperation with industry organizations, partners, universities and other stakeholders, so as to promote multi-party resource sharing and complementary advantages and achieve scientific development.





From May 11 to May 13, 2022, Intersolar Europe, as the world's leading exhibition for the solar industry, took place at the Messe Munchen exhibition center in Munich, Germany. The overseas team of Yingli Solar presented a variety of high-efficiency modules at Booth A3.280 and discussed module technology and renewable energy cooperation opportunities with global new energy companies, providing more high-quality product choices for international photovoltaic projects.



From June 14 to 16, 2022, GENERA, the Energy and Environment International Trade Fair in Spain, took place at IFEMA International Exhibition Center in Madrid, Spain. Yingli Solar presented various high-efficiency products at Booth 10C15, attracting the attention of exhibitors from all over the world.

3. Employee Care and Security

With the protection of employees' rights and interests as the key management aspect of the Company's development, Yingli Solar has established the social responsibility management policy of "eliminating discrimination, complying with laws and regulations, promoting health and safety, prioritizing prevention, operating with integrity and contributing to society" to ensure the compliance with international labor standards and

local labor regulations. The Company continues to improve working conditions and employee benefits, attaches importance to talent training, respects employee rights, and strives to create a pleasant working environment for employees.

3.1 Employment Management

Based on SA 8000:2014 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, stipulating clear provisions on the prohibition of child labor and protection of juvenile workers, prohibition of forced labor, prohibition of discrimination, prohibition of inappropriate punitive measures, wage compensation and benefits, etc.

■ 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 establish records of underage workers, 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.

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, including prison labor, indenture labor and bonded labor, etc.; prohibits the use of any actions that restrict labor freedom, such as withholding identity documents, collecting deposits or collateral, withholding employees' wages, using monitoring or wiretapping, forced body searches, restricting employees' access to factories

and forced overtime work, etc. 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.

■ 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.

Appropriate Disciplinary Measures

The Company respects all employees and prohibits the engagement in or support of corporal punishment, mental or physical coercion and verbal insults, or the treatment of employees in a rough and inhumane manner; formulates reasonable reward and punishment systems in compliance with the requirements of national laws and regulations to warn, educate and help employees in violation of labor discipline. Prior to decisions to impose penalties, it is necessary to check the facts by personnel without interest conflicts, obtain evidence, conduct discussions, consult with employee representatives, and allow

the individual to argue.

■ 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, reverse 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.



Flower Delivery for Women's Day at the Headquarters



Condolence for Chinese New Year of the Headquarters



Birthday Party for Employees at the Headquarters



Condolence for Workers in Need of the Tianjin

Base



Dumpling Activity for Dragon Boat Festival at the Tianjin base

3.2 Employee 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.

3.2.1 Employee Training

■ New Employee Onboarding

New employee onboarding training is divided into company-level and department-level training. The company-level onboarding training is organized and implemented by the Human Resources Department before the new employees are assigned to the departments; the department-level onboarding training is organized and implemented by the departments after the assignment.

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.

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.

■ 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.

Internal training is in charge of the training organization department, which determines the instructor and training content, arranges the training venue and notifies the trainees before the training; organizes sign-in and maintains training discipline during the training implementation; and conducts training effect evaluation after the training. Assessment of the knowledge or skills required to be mastered by the trainees in the training process shall be conducted in the form of examination papers or on-site operation within one week after the training.

External training is organized by the trainee's department to sign the External Training Agreement, and fill in the External Training Effect Evaluation Form within 2 working days after the training completion, together with the training certificate, learning materials and other training materials by the Human Resources Department for record, and transfer the training to the department within two weeks.

In 2022, at the Headquarters of Yingli Solar, 1,413 employees were trained, with a total of 4,420 hours of training. The training coverage rate of male employees was 95%, that of female employees was 95%, and the average training hours of both male and female employees was 13.27 hours. 269 person-times were trained in the Hengshui Base, with a total training length of 2394.5 hours. The training coverage rate of male employees was

72.4% and that of female employees was 14.95%, with an average training length of 9.39 hours for male employees and 6.51 hours for female employees. The Li County Base conducted a total of 20 company-level trainings, with a total of 258 training participants and 8,256 training hours. The training coverage rate for male employees was 96% and for female employees was 98%, and the average training hours for both male and female employees was 32 hours.



Management Training at the Headquarters



Product Knowledge Training for Sales at the Headquarters



Training on the Performance Management
System Construction and Operation Practice for
Middle and Senior Management and Backup
Talents at the Headquarters



Innovative Thinking Course in the Li County Base

3.2.2 Backup Talent Management

On the basis of corporate development and job requirements, the key positions are divided into management-level key positions and employee-level key positions, and equipped with the corresponding number of backup talents according to the actual situation. Management-level key positions refer to the Company's mid-level management positions, while employee-level key positions refer to the positions with scarce talents, poor replaceability or high replacement cost, difficult recruitment, or special positions that

assume the main responsibilities of the department, quality control points, and require systematic learning to perform the job, or positions with more resources such as mastering the Company's technology, information, market, government relations, economic relations and customer relations.

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: internal mentorship, training, attendance at major meetings, job rotation or posting exercise.

- Internal mentorship: The incumbent of the key position is the direct mentor of the backup talent of the position, with training contents including but not limited to work ideas, work methods, professional skills, career growth, etc. In case the internal mentor is the direct supervisor of the reserve personnel, additional performance coaching is required, including but not limited to target review, target outlook, target achievement experience summary, target failure experience analysis, next work improvement plan, etc.
- > Training: Backup talents take priority in the public resources training of the Company.
- Attendance at major meetings: The backup talents have access to attend meetings in their professional fields through application to the meeting organizing department.
- Job rotation or posting exercise: Enrich and diversify the work to gain more professional and technical experience or management experience.

3.3 Occupational Health and Safety

Combined with the actual operation of the Company, Yingli Solar made the policy of "Yingli Solar power generation, low-carbon green energy, strictly abide by national laws and regulations, standardize enterprise management, improve safety awareness, reduce occupational risks, create a good environment, and ensure safe production" as the Company's environmental and occupational health and safety policy. 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 organized the preparation of various safety management systems and operating procedures, carried out production safety supervision within the Company, and supervised and inspected the implementation of laws, regulations and standards on production safety and various production safety management systems and operating procedures of the Company in departments. Safety signs such as workshop safety requirements, safety warning signs, emergency evacuation maps, etc. are prominently posted in the Company.

The EHS management goal of the Company is a 0% accidental death rate and no major fire and explosion safety accidents.

3.3.1 Safety Production Management System Construction

The Company has constantly established and improved the three systems of production safety management and emergency plans for production safety accidents, namely, the Production Safety Responsibility System, the special production safety management systems, the operating procedures for equipment safety management, and the emergency plans for major hazards (including the major hazards identified within the Company) and possible safety accidents. Among them, the production safety management systems include the General Rules for Production Safety Management (Trial), the Environmental/Occupational Health and Safety Management Manual, and the secondary procedure documents, the Hazard Identification, Evaluation and Update Control Procedures, the Emergency Preparedness and Response Control Procedures, and the Related Party Safety and Environmental Management Procedures.

In 2022, the Headquarters invested 200,000 RMB in safety production and conducted 1 safety emergency drill. The Tianjin Base invested 540,000 RMB in safety production and conducted 2 safety emergency drills. The Hengshui Base invested 403,400 RMB in safety production and conducted 2 safety emergency drills. The Li County Base invested 1.62

million RMB in safety production and conducted 2 safety emergency drills. In July 2022, the Company passed and obtained the ISO 45001:2018 Occupational Health Management System Certificate.



3.3.2 Safety Production Management Requirements

The Company has established the safety production inspection system, organized regular or irregular safety inspections, safety patrols and safety hazard checks at all levels (company level, workshop level, team level), and 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 designated special personnel to conduct supervision and rectification.

The Company has established the safety education and training management system and established the Safety Education and Training File for employees. Safety education and

training 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.

In June 2022, Yingli Solar launched the twenty-first National Production Safety Month Activity, with the theme of "Abide by the Production Safety Law and Be the First Responsible Person", and widely carried out promotion and study on the theme of the Production Safety Law, as well as activities such as "I am the Safety Whistle Blower" and "Find the Hidden Dangers Around Us", to investigate and correct the hidden dangers.



The Tianjin Base conducted inspections of safety hazards and recorded the identified safety hazards and suggestions for rectification in detail in the form of pictures and texts.

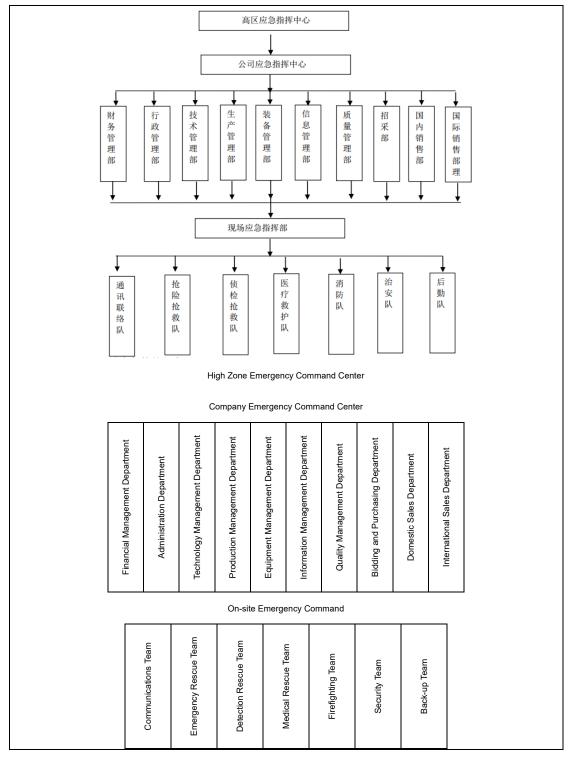


The Headquarters carried out promotion and study on the theme of the Production Safety Law to promote the "first responsible person" of the Company to strictly fulfill the responsibilities given by the Production Safety Law.

Fire Safety Management

In order to strengthen the fire safety of the Company, prevent fire accidents and protect the Company's property and employees' lives, Yingli Solar has established the fire safety organization, formulated the fire safety responsibility systems for personnel at all levels, clarified the fire safety responsibilities of each post and implemented the fire safety duties of personnel at all levels. The Headquarters and bases are equipped with fire-fighting facilities and fire-fighting equipment, and set up safety exits, safety channels, emergency evacuation signs, and on-site safety escape maps in accordance with relevant standards and regulations; annually commission qualified testing companies to conduct annual building fire-fighting facilities testing and electrical fire safety testing, and make timely

rectification of unqualified items; supervise and inspect the implementation of fire safety laws and regulations, standards and fire safety management systems in all departments, and conduct regular fire safety training and safety drills.



Fire Emergency Organization System



Firefighting Training Seminar at the Headquarters



Emergency Escape Drill at the Headquarters







Firefighting Drill at the Tianjin Base

Special Operations and Special Equipment Management

For fire, electricity, aerial, limited space and other special operations to implement the ticket system, that special operators and special equipment management personnel shall be certified to work. Establish the in-service personnel ledger, and organize the relevant personnel for training, re-examination and certification work in accordance with regulations. Ledger management is also conducted for special equipment, regular inspection in accordance with safety specifications, and regular calibration and overhaul of safety accessories, safety protection devices, measuring and control devices and related ancillary instruments and devices of special equipment in use, and make records.

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, use special warehouses for storage and be managed by dedicated personnel; set up safety warning lines, hang safety warning signs, and equip personal protective equipment and emergency rescue materials in places where chemicals are used.

■ Related Party Safety and Environmental Management

The Company imposes influence on relevant parties such as suppliers, transportation parties, engineering contractors, waste disposal parties, etc., regulates the occupational health and safety management of relevant parties, promotes the Company's management policy, goals and various management systems to relevant parties, requires relevant parties to sign contracts with EHS agreements and comply with the Company's EHS management requirements when conducting business, and conducts behavioral supervision by relevant responsible departments.

3.3.3 Occupational Health Management

The Company has established the responsibility system for the prevention and treatment of occupational diseases, strengthened the management of occupational disease prevention and control, and improved the level of occupational disease prevention and control. Based on the safety production management requirements of Yingli Solar, the Tianjin Base has compiled a series of occupational disease hazard control procedures such as the Occupational Disease Hazard Prevention and Control Responsibility System, the Occupational Hazard Protection Facilities Maintenance and Overhaul System, the Occupational Hazard Regular Monitoring and Evaluation Management System, the Occupational Hazard Accident Handling and Reporting System, the Workers' Occupational Health Monitoring and File Management System, etc.; the Li County Base has compiled documents such as the Occupational Health and Safety and Labor Protection Control Procedures and the Environment, Occupational Health and Safety Monitoring and Control Procedures to strengthen the identification and monitoring of occupational disease hazards, the prevention, inspection and accident handling of occupational diseases.

■ Require new employees to undergo 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 treatment.

- Provide employees with the working environment in compliance with occupational health requirements. Set up occupational disease hazard warning signs and warning instructions in conspicuous positions in the workplace, set up occupational health bulletin boards, and publish rules and regulations, operating procedures, emergency rescue measures for occupational disease hazard accidents and detection results of occupational disease hazard factors.
- Establish the management system for labor protection equipment. Issue labor protection equipment to employees in accordance with the relevant regulations on labor protection, improve the configuration and obsolescence standards of labor protection equipment, and guide workers to properly use occupational disease protective equipment and personal protective equipment.
- Establish occupational disease physical examination for employees in occupational disease hazard positions. Carry out regular occupational health training before and during work, popularize occupational health knowledge, urge workers to abide by laws, regulations and operating procedures for occupational disease prevention and control, improve the work process of physical examination of employees before, during, leaving / transferring and leaving work, and establish employee occupational health monitoring files.

In 2022, the occupational health and safety training at the Headquarters covered 41 employees, with a total training time of 328 hours. The occupational health and safety training at the Tianjin Base covered 325 employees, with a total training time of 1,300 hours. The occupational health and safety training at the Hengshui Base covered 300 employees, with a total training time of 600 hours. The occupational health and safety training at Li County Base covered 445 employees, with a total training time of 6,760 hours.



Occupational Disease Hazard Publicity of the Tianjin base



Occupational Health Training at the Hengshui
Base



Occupational Health Bulletin Board of the Li County Base

3.4 Democratic Governance

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. In 2022, the Tianjin Base set up suggestion boxes to collect employee feedback; the Li County Base held democratic life meetings to answer employees' concerns; the Hengshui Base collected or implemented a total of 10 employee opinions, with the handling rate of 96%.



Employee suggestion boxes set up at the Tianjin

Base



Democratic life meeting held by the Li County

Base

4. Community Co-construction

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 2022, the Headquarters organized a total of 5 volunteer activities with 110 participants; the Hengshui Base organized 1 volunteer activity, with 3 participants.



the Headquarters "Learn from Lei Feng, Volunteer to do" volunteer labor activity



the Tianjin Base Spring Festival condolences activity for firemen

Outlook

It is widely agreed in the world to actively achieve the goal of carbon neutrality and insist on the green development path of harmonious coexistence between human beings and nature. 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.

In the face of a new start, a new journey, a new hope and a new leap, Yingli Solar will take the initiative to meet opportunities and challenges, adhere to the "market and result oriented, customer and service centric, technology innovation driven", based on the current and long-term perspective, from the aspects of market supply and demand, technology collaborative innovation, standard guidance and other aspects of in-depth analysis and judgment, continue to give full play to the advantages of scientific research and innovation, form core competitiveness, provide more professional services for users around the world, promote the transformation and upgrading from energy conservation to intelligent and green energy, contribute to energy security construction and high-quality development, build the smart and energy-saving energy consumption system, strengthen digital technology empowerment, promote green energy transformation, and build the modern new energy system.

The Company will continue to earnestly fulfill its social responsibilities to employees, customers, supply chains, partners and other stakeholders, strive to achieve the coordination and unity of enterprise development with society and environment, strengthen talent training, comprehensively improve the professional skills of employees, serve customers sincerely, and give back to the society with love.

With sails hoisted and a fair wind, Yingli Solar will stick on the path of intelligent, green, safe and efficient high-quality development, contribute to the sustainable development of the environment and society, brave winds and waves and embrace sustained progress.

Appendix

Annual Performance

Consolidated Financial Indicators

Indicator for 2022	Unit	Data
Total assets	100 million RMB	53.09
Return on Net Assets	%	0.50
Operating income	100 million RMB	65.31
Net profit attributable to owners of the parent	100 million RMB	0.05
Total tax payment	10 thousand RMB	3473.44

Note: Please refer to the consolidated data for Yingli Solar's financial indicators, and the breakdown indicators are for reference only.

Indicator for 2022	Unit	Headquarters	Tianjin	Hengshui	Li County
Governance					
Total assets	one hundred million RMB	29.16	19.06	10.72	9.57
Return on Net Assets	%	-6.64	27.60	10.61	8.82
Operating income	one hundred million RMB	29.15	32.26	14.87	11.65
Net profit attributable to owners of the parent	one hundred million RMB	-0.56	0.38	0.12	0.10
Total tax payment	ten thousand RMB	1431.58	105.79	1066.36	869.72
Number of completed corruption lawsuits during the reporting period	case	0	0	0	0
Environment				L	
Investment in environmental protection	ten thousand RMB	2	69	40	135.3
Number of environmental emergency drills	case	0	2	1	2
Number of environmental pollution accidents	case	0	0	0	0
Total water consumption	tons	5637	27760	40401	30465
Total water consumption per ten thousand RMB revenue	tons/ten thousand RMB	0.0178	0.0861	0.2721	0.2618
Total energy consumption	tons of standard coal equivalent	139.34	3290.63	1886.47	1785.92
Gasoline consumption	liters	18.30	5662.55	0	4145.60
Diesel consumption	liters	0	481.22	0	0
Natural gas consumption	cubic meters	33568.8	96236	106112	2077
Total steam consumption	tons	0	0	0	2314.64

Electricity consumption	ten thousand kWh	58.31	2677.49	1420.00	1341.36
Energy consumption per ten thousand RMB revenue	ton of standard coal equivalent/ten thousand RMB	0.0004	0.0102	0.0127	0.0153
Nitrogen oxide (NOx) emissions	tons	0	0	0.08385	0
Volatile organic compounds (VOCs) emissions	tons	0	1.76	0.466	0.452
Suspended particulate emissions	tons	0	0	0.368	0.092
Total wastewater discharge	tons	0	21700	4320	10368
Chemical oxygen demand (COD) emissions	tons	0	1.34	0.072	3.018
Ammonia nitrogen emissions	tons	0	0.11	0.012	0.306
Wastewater discharge per ten thousand RMB revenue	tons/ten thousand RMB	0	0.0673	0.0291	0.0891
Total waste generated	tons	0	46.08	992.49	27.78
Total hazardous waste generated	tons	0	1.08	22.43	23.88
Total general industrial solid waste generated	tons	0	45.00	970.06	3.90
Waste generated per ten thousand RMB revenue	tons/ten thousand RMB	0	0.0001	0.0067	0.0002
Total greenhouse gas emissions	tCO₂e	-	15501.71	8567.14	7746.04
Greenhouse gas emissions (Scope 1)	tCO ₂ e	-	232	471	13
Greenhouse gas emissions (Scope 2)	tCO₂e	-	15269.71	8096.14	7733.04
Greenhouse gas emissions per ten thousand RMB revenue	tCO₂e /ten thousand RMB	-	0.05	0.06	0.07
Social					
Total number of employees	person	311	283	308	268
Ratio of male employees	%	60	64	68.83	81
Ratio of female employees	%	40	36	31.17	19
Ratio of employees aged 30 and below	%	7	31	25	40
Ratio of employees aged 30 to 50	%	90	69	73.7	59.7
Ratio of employees aged 50 and above	%	3	0	1.3	0.3

Ratio of employees with master's degree or above	%	12	1	0.32	0
Ratio of employees with bachelor's degree	%	70	12	6.17	10
Ratio of employees below bachelor's degree	%	18	87	93.51	90
Total number of the management	person	42	9	9	12
Ratio of female employees in management	%	26	0	11.11	8.33
Employee turnover rate	%	2.25	39	10.31	32
Male employee turnover rate	%	1.29	32	9.02	29.2
Female employee turnover rate	%	0.96	7	1.29	2.8
Turnover rate of employees aged under 30	%	1.29	30	4.9	23
Turnover rate of employees aged 30 to 50	%	0.96	9	5.41	9
Turnover rate of employees aged over 50	%	0	0	0	0
Labor contract signing rate	%	100	100	99.03	100
Social insurance coverage	%	100	100	99.03	99.5
Employee Satisfaction	%	92.5	95	95	99.5
Employees training covered person-times	person-time	1413	248	269	258
Total duration of employee training	hour	4420	3016	2394.5	8256
Male employees training coverage	%	95	100	72.4	96
Female employees training coverage	%	95	100	14.95	98
Average duration of training for male employees	hour	13.27	9.5	9.39	32
Average duration of training for female employees	hour	13.27	6.32	6.51	32
Work-related deaths	person	0	0	0	0
Working days lost due to work- related injuries	day	0	0	0	0
Number of occupational contraindications or occupational diseases	person	0	0	0	0
Occupational safety and health training covered person-times	person-time	41	325	300	445

Total duration of occupational	hour	328	1300	600	6760
safety and health training		0.0		40.04	400.00
Safety production investment	ten thousand RMB	20	54	40.34	162.20
Safety emergency drills	case	1	2	2	2
Safety production accidents	case	0	0	0	0
Number of employee opinions	case	-	0	10	-
collected/implemented					
Handling rate of employees'	%	-	100	95	-
opinions	, ,				
Product R&D investment	ten thousand RMB	12073.48	11461.59	0	0
Total number of R&D	person	71	62	0	0
personnel	регооп	, ,	02	0	Ů
Patents applied in the year	unit	96	34	0	0
Patents authorized in the year	unit	48	28	6	0
Participation in the standard		_	0	0	0
preparation	unit	5	0	0	U
Number of science and	.,				0
technology awards	unit	2	0	0	0
Product qualification rate	%	99.90	99.94	99.90	99.92
Number of complaints	case	4	0	0	1
Complaint resolution rate	%	100	100	100	100
Customer satisfaction	%	93.65	93.65	93.65	100
Number of suppliers	unit	36	89	20	396
Number of suppliers in North					
China	unit	8	53	15	332
Number of suppliers in East					
China	unit	21	31	3	7
Number of suppliers in South					
China	unit	3	3	2	49
Number of suppliers in Central					
China	unit	1	2	0	8
Number of industry					
communication activities	case	1	0	1	0
Total public charity investment	ten thousand RMB	0	_	0	0
Employee volunteer activities					
organized	case	5	-	1	10
Person-times of volunteers	person-time	110	_	3	3
involved	person-une	110	_	3	3

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Comments and Feedback

Dear readers:

Thank you for reading the Environmental, Social and Governance Report of Yingli Energy Development Co., Ltd. In order to continuously improve our ESG management and reporting preparation, please share your comments and suggestions by filling in the feedback form and send them back to us by post or email. We sincerely appreciate your valuable suggestions!

Yingli Energy Development Co., Ltd.

	May 2023
1.	Which of the following stakeholders do you belong to?
	□ Government/Regulatory Agency □ Shareholders □ Employees □ Consumers
	□ Partner/Supplier □ Public Community □ Media/NGOs □ Others
2.	What is your opinion about the Report as a whole?
	□ Very good □ Good □ Normal □ Poor □ Very Poor
3.	How do you think of the accuracy and completeness of the information, indicator and
	data disclosed in the Report?
	□ Very good □ Good □ Normal □ Poor □ Very Poor
4.	How do you think the Report reflects the Company's ESG philosophy, practices and
	performance?
	□ Very good □ Good □ Normal □ Poor □ Very Poor
5.	Your comments on the content structure of the Report are:
	□ Very good □ Good □ Normal □ Poor □ Very Poor
6.	Your comments on the layout design of the Report are:
	□ Very good □ Good □ Normal □ Poor □ Very Poor
7.	What information would you like to know more about?
8.	Your opinions and suggestions on the EGS report and ESG Management work of the
	Company: