



通威股份  
TONGWEI CO., LTD.

TONGWEI·FOR BETTER LIFE |



**2020 ESG REPORT**  
**TONGWEI CO., LTD.**

JUN, 2021

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## ABOUT THE REPORT

### 01 Introduction

This is the first environmental, social and corporate governance (ESG) report published by Tongwei Co., Ltd. ("Tongwei Co., Ltd.", "Company" or "We"). Based on the principles of objectivity, compliance, transparency and comprehensiveness, this report discloses in detail the practices and performance of Tongwei Co., Ltd. in the areas of economic, environmental, social and corporate governance responsibilities for the period from January 1 to December 31, 2020. To maintain the continuity of information, some of the content may exceed this period.

### 02 Scope

This report applies to Tongwei Co., Ltd. and its wholly- owned and controlled subsidiaries. Any difference between the data scope and that of the report will be indicated in the text herein.

### 03 Guidelines for Preparation

With reference to the Guidance on social responsibility (GB/T 36000), the Guidelines for Environmental Information Disclosure of Listed Companies on the Shanghai Stock Exchange, the Guidelines for Social Responsibility of Listed Companies on the Shenzhen Stock Exchange, the Environmental, Social and Governance Reporting Guide of the Stock Exchange of Hong Kong, the Global Reporting Initiative (GRI) Sustainability Reporting Guidelines (Fourth Edition) ("GRI G4"), ISO 26000:2010 Guidance on Social Responsibility of the International Organization for Standardization ("ISO 26000"), and other international and domestic ESG/ sustainable development/social responsibility-related frameworks, this report focuses on the background of the industry and highlights the particularities of the Company.

### 04 Data Source

The data and cases in this report were sourced from the *Tongwei Co., Ltd. 2020 Annual Report*, internal statistics, third-party surveys or interviews, and publicly available information issued by the government and news media.

### 05 Availability of the Report

This report is published in both Chinese and English. For access to the electronic version, please visit Tongwei Co., Ltd. Official Website (<http://www.tongwei.com.cn/>) and WeChat Official Accounts (Tongwei Group, Tongwei Agriculture and Animal Husbandry).

### 06 Response to Shareholders' Suggestions in ESG

To continuously improve the disclosure level of ESG information and advance the ESG management and practices of the Company, we seek further comments from readers, who may contact us by sending an email to our corporate email address ([twesg@tongwei.com](mailto:twesg@tongwei.com)). For more details, please refer to the section on reader's opinions at the end of this report.



## MESSAGE FROM MANAGEMENT

Dear readers,

2020 was a difficult but extraordinary year. In the face of the unexpected outbreak of COVID-19 and amidst increasing global complexities, we worked together to overcome difficulties, continuously reinforced the advantages of our two main businesses in the areas of green agriculture and green energy, and strove to make achievements in the fighting against the epidemic and maintain production. 2020 was also a year in which we kept pace with the times and built on past achievements. President Xi Jinping solemnly promised at the UN General Assembly that China would aim to achieve carbon dioxide emissions peak before 2030 and carbon neutrality before 2060, which has greatly boosted our confidence and determination to make contributions to the global energy transformation and green sustainable development.

In 2020, Tongwei made great achievements in agriculture and animal husbandry and green energy with constant persistence in innovation and efficient execution. Both the market capitalization and brand value of Tongwei Co., Ltd. exceeded RMB 100 billion. Our reputation as a world-class food supplier and clean energy operator has also received a high degree of acknowledgment.

During the pursuit of green and sustainable development, we incorporate the ESG goals into our development strategy and continuously optimize the ESG management structure to ensure the mutual prosperity of corporate management and the social economy. The Company has kept a steady development trend in the agriculture and animal husbandry, maintaining its global leadership in supplying silicon and battery modules in the new energy industry, and constantly providing society with first-class products and services.

Looking back on the past 39 years of Tongwei's development, we never forgot our aspiration and have always been motivated to keep moving forward. We will continue to keep the corporate purpose of "Striving for Excellence and Contributing to Society" as always, while adhering to the management philosophy of "Honesty, Trust, Fairness and Excellence" unswervingly, continuously focusing on green and sustainable development and actively contributing to a better future for humankind!

Chairman ■

Xie Yi ■

May, 2021 ■

## ABOUT TONGWEI CO., LTD.

Established in 1995, Tongwei Co., Ltd. is a large listed tech company controlled by Tongwei Group Co., Ltd. ("Tongwei Group"), with its focus on the two core business areas of **agriculture and animal husbandry, PV and new energy**. With a dual-industry strategy, the Company cultivates its competitive advantage of "Fishery & PV Integration" and is committed to becoming a world-class supplier of safe food products and an operator of clean energy.



## BUSINESS OVERVIEW

### Agriculture (Fishery)

As a national key leading enterprise in agricultural industrialization and a worldwide major aquatic feed production enterprise, Tongwei Co., Ltd. is committed to making improvements in breeding species, feed research and development, green aquaculture, and food processing and sales, achieving quality control and traceability, effectively enhancing the value and competitiveness of the modern aquatic industrial chain, while providing qualified products to the public and improving the quality of human life. With **more than 70 worldwide feed branch companies and subsidiaries**, the Company achieved the annual capacity of over 10 million tons by the end of 2020.



**70+**  
feed branch companies  
and subsidiaries



**over 10 million tons**  
annual feed  
production capacity

### PV Industry

Tongwei Co., Ltd. completed the acquisition and reorganization of the PV industry of Tongwei Group in 2016. After five years of rapid development, it transformed to become an enterprise with a complete PV new energy industrial chain and independent intellectual property rights, encompassing **the production of high-purity polysilicon in the upstream, high-efficiency solar cells in the midstream and the construction and operation of PV powerplants in the downstream**. The Company has now become an important participant and a primary driving force for the development of the new energy industry in China and even the world.

As of the end of 2020, the Company had achieved an **annual capacity of high-purity polysilicon of 80,000 tons** ranking first globally, and an **annual capacity of solar cells of 27.5GW**, becoming an enterprise with the largest shipments in solar cells globally for four consecutive years; Moreover, at the downstream of the PV industrial chain, the PV grid-connected scale adopting "Fishery & PV Integration", **exceeded 2GW in total**.



Finished feed warehouse



Distillation tower for high-purity polysilicon of Yongxiang Co., Ltd.



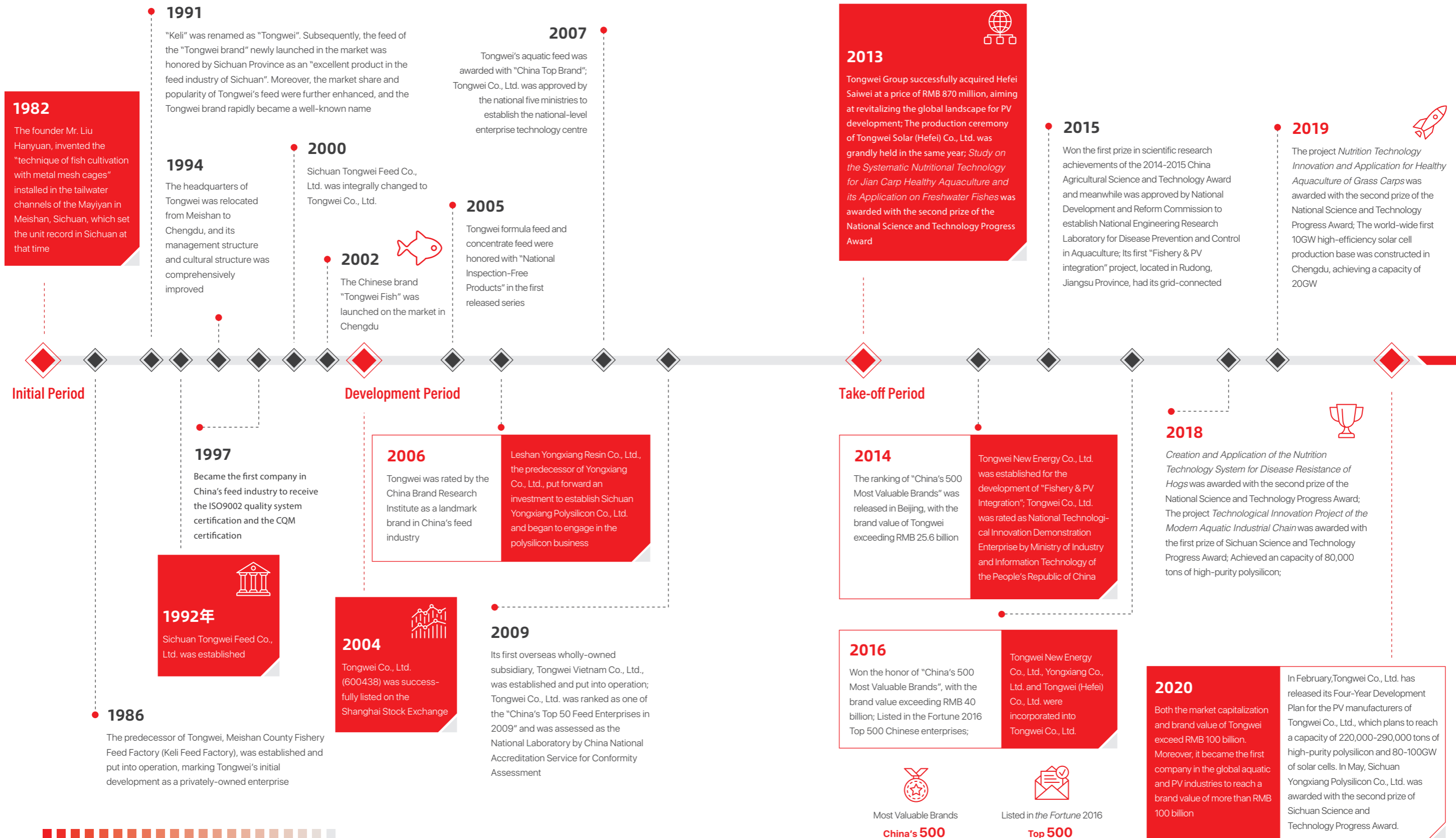
Intelligent manufacturing line of Tongwei Solar Co., Ltd.

# ABOUT TONGWEI CO., LTD.



TIC 通威国际中心

## DEVELOPMENT HISTORY



## HONORS

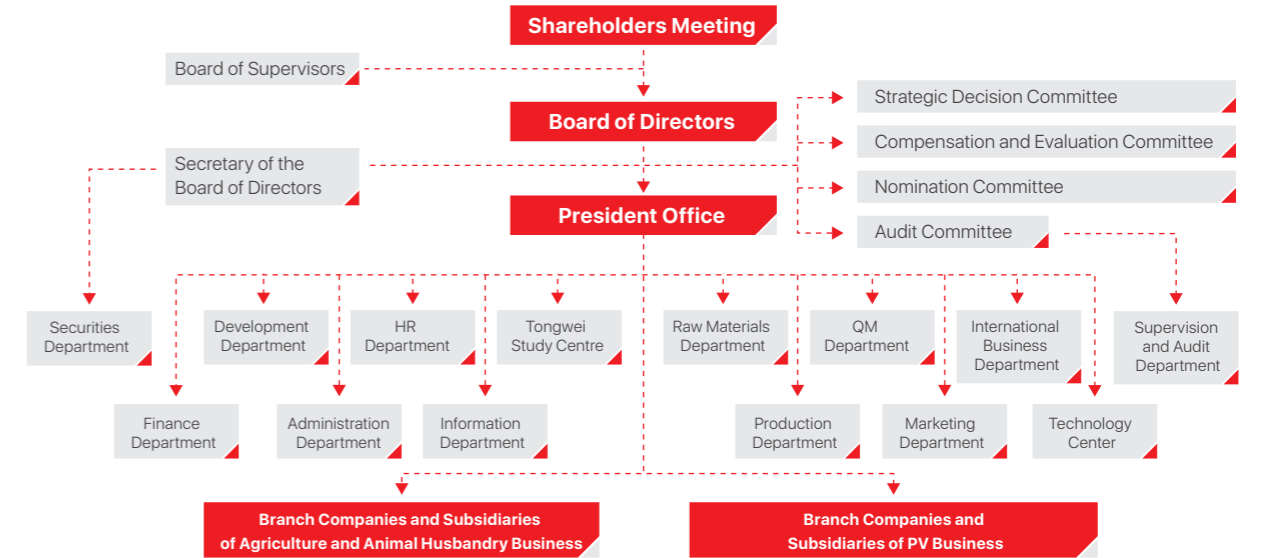
Tongwei Co., Ltd. has got outstanding achievements in industry leadership, technological innovation, brand influence, social contribution, green development, etc. and was awarded with tens of national, provincial and municipal scientific and technological achievement awards, including three Second Prizes of National Science and Technology Progress Award, the Second Prize of Sichuan Science and Technology Progress Award, Outstanding Winner of Leshan Science and Technology Progress Award, the First Prize of Sichuan Patent Award, China Patent Excellence Award, and Innovation and Entrepreneurship Prize of Sichuan Patent Award. We have also been awarded with the honorary titles of National Key Leading Enterprise in Agricultural Industrialization, Top 500 Chinese Enterprises, Top 100 Chinese Privately-owned Listed Companies, China Well-known Trademark, China Top Brand and Outstanding Privately-owned Enterprise of Sichuan Province. The major awards and honors won in recent three years are listed in the table below:

No.	Honorary Title	Awarding Organization	Date
1	China Energy Innovation Program Award	The Sixth China Energy Development and Innovation Forum	2020
2	Top 100 Agricultural Industrialization Leading Enterprises, Top 10 Scientific and Technological Innovation Leading Enterprises of Agricultural Industrialization, Top 10 International Export Leading Enterprises of Agricultural Industrialization	Ministry of Agriculture and Rural Affairs of the People's Republic of China	December, 2020
3	2020 China Top 10 Digital Leading Enterprises in the Animal Husbandry Feed Industry	The 17th Animal Husbandry and Feed Science & Technology and Economic Summit Forum in 2020	December, 2020
4	2020 Provincial Quality Credit AAA Rating Demonstration Enterprise	Sichuan Quality Supervision Association	December, 2020
5	2020 Top 10 Leading Feed Enterprises & 2020 Top 10 Aquatic and Animal Husbandry Feed Enterprises	China Feed Industry Association	December, 2020
6	China Good Photovoltaic 2020 Investment Value Award - New Energy	China Good Photovoltaic Brand Ceremony Organizing Committee	November, 2020
7	OFweek Cup 2020 Excellent Photovoltaic Material Supplier	OFweek Photovoltaics	November, 2020
8	OFweek Cup 2020 Excellent Photovoltaic Cell/Modules Product Award	OFweek Photovoltaics	November, 2020
9	2020 Environmental & Social Responsibility Enterprise	China Environment News	November, 2020
10	2020 Excellent Photovoltaic Material Supplier	China Good Photovoltaic Brand Ceremony Organizing Committee	November, 2020
11	The First Prize of "Golden Panda" High Value Patent Cultivation Competition	Chengdu Hi-Tech Industrial Development Zone Science & Technology and Talent Work Bureau	September, 2020
12	Top 100 Main Board Value on the 14th Value Selection of China's Listed Companies	Securities Times	August, 2020
13	Sichuan Provincial Quality Benchmark - Advanced Enterprise in Quality Management	Sichuan Quality and Technology Supervision 12365 Protecting Brand and Anti-Forgery Centre, Sichuan Anti-Forgery Technology Promotion Centre	June, 2020
14	Ranking Top 10 of the Top 100 Agricultural Product Processing Enterprises	China Association of Agricultural Leading Enterprises, Farmers' Daily, Southern Rural News	February, 2020
15	2019 Outstanding Social Responsibility Golden Sail Award	Southern Finance Omnimedia Corp.	2019
16	The Second Prize of National Science and Technology Progress Award —— a project titled <i>Nutrition Technology Innovation and Application for Healthy Aquaculture of Grass Carps</i>	State Council of the People's Republic of China	December, 2019
17	Top 10 Pilotage Enterprise in the Feed Industry of Sichuan Province	Sichuan Association of Feed Industry	November, 2019
18	Sichuan Provincial Credible Privately-owned Enterprise	17 departments, including Sichuan Provincial Development and Reform Commission, The People's Bank of China Chengdu Branch, Sichuan Provincial Economic and Information Department, Science & Technology Department of Sichuan Province, and Department of Emergency Management of Sichuan Province	October, 2019
19	National Green Factory	Ministry of Industry and Information Technology of China	September, 2019
20	Chengdu Academician (Expert) Workstation	Chengdu Association for Science and Technology	September, 2019
21	Chemical Industry High-quality Project	China National Association of Chemical Construction Enterprises	September, 2019
22	The Second Prize of Fanli Science and Technology Award Issued by the China Society of Fisheries —— a project titled <i>Study and Application of the Fishery &amp; PV Integration Pond Aquaculture</i>	The China Society of Fisheries	June, 2019
23	The Second Prize of the National Science and Technology Progress Award —— a project titled <i>Creation and Application of the Nutrition Technology System for Disease Resistance of Hogs</i>	State Council of the People's Republic of China	December, 2018
24	The Second Prize of Sichuan Science and Technology Progress Award a project titled <i>Innovation and Application of Polysilicon Industrialization Energy Conservation Technology</i>	The People's Government of Sichuan Province	May, 2018
25	Top 10 in Semiconductor Specialty of China's Electronics Materials Industry	China Electronics Materials Industry Association	June, 2017 & June, 2019
26	National Advantage Enterprise in Intellectual Properties	China National Intellectual Property Administration	December, 2016 – November, 2019



## ORGANIZATIONAL STRUCTURE

With its focus on the two core business areas of "Agriculture (Fishery) + PV", the Company set six business segments that encompass high-purity polysilicon, solar cells, PV power generation, solar modules, agriculture and animal husbandry, and food products. The headquarters of Tongwei Co., Ltd. has the functional departments of the Supervision and Audit Department, Finance Department, Human Resources Department and Securities Department, etc. For business layout and development, the functional departments of the listed company mainly take responsibility for the operation and management of agriculture and animal husbandry business and the company's comprehensive affairs. Under the unified management of the listed company, its subsidiaries Yongxiang Co., Ltd., Tongwei Solar (Hefei) Co., Ltd. and Tongwei New Energy Co., Ltd. respectively set up departments of purchase, production, sales and finance to be responsible for the operation and management of related business specifically.



## CORPORATE CULTURE

An effective corporate culture is the key for underpinning cohesion and creativity and an important part of the core competitiveness of the Company. After several decades of steady development and continuous refinement, Tongwei Co., Ltd. has established a unique and enriched corporate culture constituted by its vision, mission, purpose, management philosophy and culture philosophy, marking the company values were practiced from top to bottom. The elemental spirit advocated by the Company's corporate culture is closely integrated with our business targets and daily work, guiding the benchmarking operations of all business segments, branch companies and subsidiaries of the Company, continuously and deeply advancing the delicacy management and constantly boosting the high-quality development of various business activities.

### VISION For better life

### MISSIONS

- Economic mission:** Continuing a healthy growth and achieving elite status
- Social mission:** Increasing social material wealth and improving life quality
- Cultural mission:** Upholding healthy social values and advancing China's cultural civilization

### CORPORATE PURPOSE

Striving for Excellence    Contributing to Society

### MANAGEMENT PHILOSOPHY

- Honesty (Being Sincere and Candid);
- Trust (Winning Trust by Credibility);
- Fairness (Running Business with Fairness and Legitimacy);
- Excellence (Taking the Lead with Guaranteed Excellence).

### CULTURAL CONCEPT

- Progress with responsibility;
- Cooperation for creating excellence; Responsibility as priority.

### MANAGEMENT IDEAS

- Three determines: Efficiency determines profit;
- Detail determines success; Speed determines life or death.

### CODE OF CONDUCT

- Work hard; Work with intelligence;
- Work with the spirit of seizing the day.

## IDENTIFICATION AND COMMUNICATION OF STAKEHOLDERS

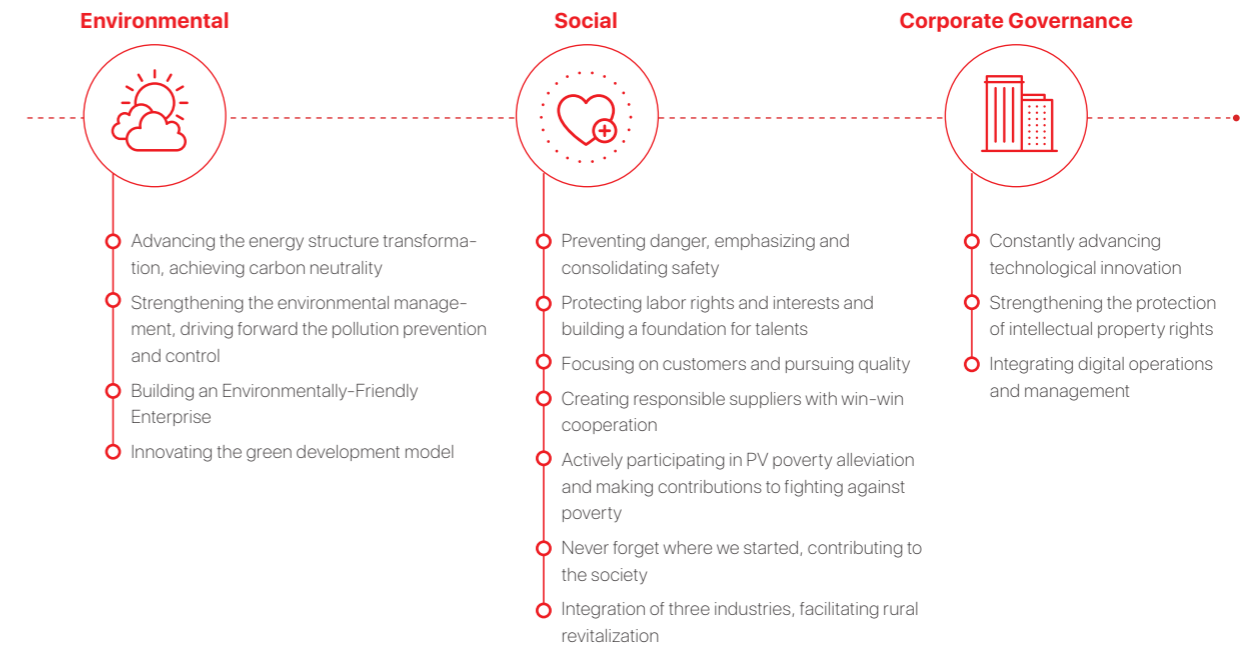
The healthy development and achievements of Tongwei Co., Ltd. are inseparable from the support of its stakeholders, including government and regulatory authorities, shareholders and investors, employees, customers, suppliers and communities. The Company adheres to the principles of transparency and equality and places an emphasis on communication and cooperation with stakeholders. During the reporting period, we improved our communication mechanisms with stakeholders continuously, organized diversified communication activities, understood and responded to the expectations and demands of stakeholders promptly, and achieved win-win cooperation and harmonious development together with all stakeholders.

Stakeholders	Topics	Communication Channel	Our Actions
Government and Regulatory Authorities	<ul style="list-style-type: none"> <li>Law compliance</li> <li>Product and service quality</li> <li>Emissions reduction, and ecological protection</li> <li>Safe production</li> <li>Employee rights and benefits</li> <li>Etc.</li> </ul>	<ul style="list-style-type: none"> <li>Daily work meetings, information reporting, work reporting</li> <li>Participating conferences and workshops</li> <li>Being part of proposing various standards, and participating in relevant workshops and conferences</li> <li>Etc.</li> </ul>	<ul style="list-style-type: none"> <li>Integrity management in accordance with law</li> <li>Proactive tax payment<sup>[1]</sup></li> <li>Safe and clean production</li> <li>Promoting transformation of renewable energy</li> <li>Etc.</li> </ul>
Investors	<ul style="list-style-type: none"> <li>Integrity management in accordance with law compliance</li> <li>Sustainable operation, promoting upright practice</li> <li>Quality management</li> <li>Win-win cooperation</li> <li>Ecological protection</li> <li>Safe production</li> <li>Occupational health</li> <li>Employee rights and benefits</li> <li>Talent development</li> <li>Etc.</li> </ul>	<ul style="list-style-type: none"> <li>Roadshows,</li> <li>Shareholders meetings</li> <li>Information disclosure</li> <li>Release of business performance</li> <li>Investor hotline</li> <li>Company website</li> <li>Etc.</li> </ul>	<ul style="list-style-type: none"> <li>Strengthening the construction of compliance</li> <li>Protection of investors' rights and interests</li> <li>Multi-channel communication</li> <li>Enhancement of corporate governance</li> </ul>
Employees	<ul style="list-style-type: none"> <li>Integrity management in accordance with law compliance</li> <li>Sustainable operation</li> <li>Safe production</li> <li>Occupational health</li> <li>Lawful employment</li> <li>Employee rights and benefits</li> <li>Etc.</li> </ul>	<ul style="list-style-type: none"> <li>Employee representatives conference</li> <li>Employee satisfaction survey</li> <li>Employee Union</li> <li>Inviting employee's family members to visit the company</li> <li>Etc.</li> </ul>	<ul style="list-style-type: none"> <li>A fair path of promotion</li> <li>Enhancement of safe production</li> <li>Focus on occupational health</li> <li>Improvement of training system</li> <li>Guarantee of employees' rights interests</li> <li>Establishment of an efficient compensation and benefits</li> <li>Etc.</li> </ul>
Customers	<ul style="list-style-type: none"> <li>Law compliance</li> <li>Guarantee of employees' rights and interests</li> <li>Quality management</li> <li>Technological innovation</li> <li>Etc.</li> </ul>	<ul style="list-style-type: none"> <li>Service hotline</li> <li>Aftersales service</li> <li>Interviews and visits</li> <li>Interactive platform</li> <li>Etc.</li> </ul>	<ul style="list-style-type: none"> <li>Promoting quality and technological innovation</li> <li>Establishment of customers satisfaction system and customer complaint system</li> <li>Provision of safe and healthy food,</li> <li>Supply of clean electricity and energy</li> <li>Improvement of customer service system</li> <li>Etc.</li> </ul>
Suppliers	<ul style="list-style-type: none"> <li>Law compliance</li> <li>Win-win cooperation</li> <li>Etc.</li> </ul>	<ul style="list-style-type: none"> <li>Open bidding</li> <li>Contract negotiation</li> <li>Supplier assistance</li> <li>Field research</li> <li>Etc.</li> </ul>	<ul style="list-style-type: none"> <li>Perfection of supplier management system</li> <li>Host of supplier conference</li> <li>Improvement of the supplier information system</li> <li>Supplier training and support</li> <li>Etc.</li> </ul>
Communities	<ul style="list-style-type: none"> <li>Integrity management in accordance with law compliance</li> <li>Excellent production/service quality management</li> <li>Technological innovation</li> <li>Emissions reduction, and ecological protection</li> <li>Safe production</li> <li>Occupational health</li> <li>Etc.</li> </ul>	<ul style="list-style-type: none"> <li>Community talks and communication</li> <li>Building up science popularization bases</li> <li>Public welfare activities</li> <li>Environmental protection open days</li> <li>Etc.</li> </ul>	<ul style="list-style-type: none"> <li>Dedication to poverty alleviation by the PV industry</li> <li>Boosting of rural revitalization</li> <li>Deep engagement in social welfare assistance</li> <li>Donation to fight against the epidemic</li> <li>Formulation of employee localization policy</li> </ul>

<sup>1</sup> Tongwei Group was selected as the member of "National Taxation Thousand Enterprises" and signed the tax compliance agreement with Sichuan Tax Service, State Taxation Administration.

## ANALYSIS OF KEY TOPICS

Based on our discussions with stakeholders, advice from external experts, and peer benchmarking studies, and in accordance with the GRI standard (2016), UN Sustainable Development Goals (SDGs) and the Guidelines for Environmental Information Disclosure of Listed Companies on the Shanghai Stock Exchange, the key ESG topics have been defined and the information relating to these topics are disclosed and elaborated in the following report.



## "FACTS & FIGURES" OF TONGWEI CO., LTD. 2020

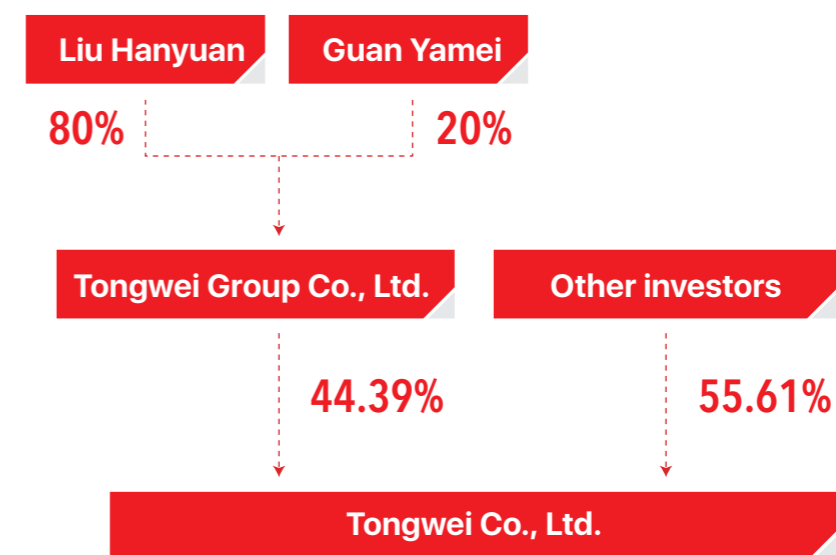




## PERFECTION OF CORPORATE GOVERNANCE

Strictly in accordance with the *Company Law of the People's Republic of China*, the *Securities Law of the People's Republic of China*, the *Code of Corporate Governance of Listed Companies* and other relevant laws and regulations and the requirements of the modern enterprise system, Tongwei Co., Ltd. has centred itself on the strategic goal of "building a world-class supplier of safe food and a world-class supplier of clean energy" (two world-class)", guaranteeing the scientific and efficient decision-making of the Board of Directors, and enhancing managers' responsibilities. It focuses on developing a standardized internal control system and rules and constructing a compliant management system, constantly advancing technological innovation and digital operations, strengthening the protection of intellectual property rights, while building a team with professional ethics and integrity and promoting the healthy and orderly development of the enterprise.

### CONTROLLING SHAREHOLDER AND ACTUAL CONTROLLER



Shareholding Structure

As of the end of December 2020, the largest shareholder of the Company was Tongwei Group, and the ultimate actual controller was Liu Hanyuan, who is currently the Chairman of the Board of Directors of Tongwei Group and a board member of Tongwei Co., Ltd., having neither records of criminal wrongdoings or disciplinary violations nor any punishments by government authorities. During the reporting period, there were no changes in both the controlling shareholder and the actual controller of Tongwei Co., Ltd..



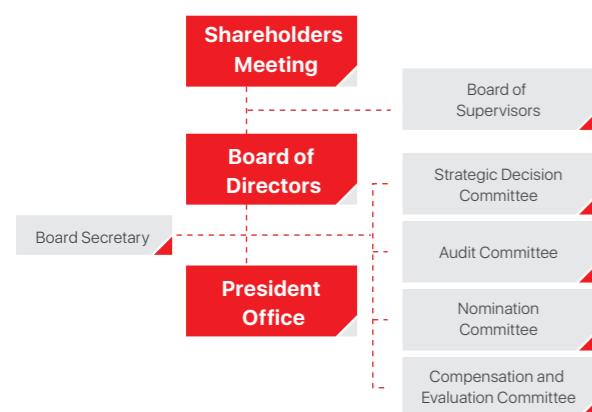
## GOVERNANCE STRUCTURE

### Governance System

A good corporate governance mechanism may enhance the corporate value and protect the rights and interests of shareholders, thus laying an important foundation for the sustainable development of the Company. With long-term practice, the corporate governance system can be continuously perfected and management can be improved. We have a clear division of responsibilities and can achieve a high level of efficiency through a system of Shareholders Meetings, a Board of Directors and its affiliated committees, a Board of Supervisors, a management team led by the General Manager and other functional departments.

### Governance Structure

The Company has developed a complete control system for corporate governance, adopting the general manager responsibility system under the Board of Directors, and formulating the rules on the work of the General Manager to achieve compliant operations and ensure the efficient and orderly business decision-making. There are four committees affiliated to the Board of Directors, including the Strategic Decision Committee, Compensation and Evaluation Committee, Nomination Committee and Audit Committee, which constitute a balanced and effective internal management and control system.



### Governance Mechanism

#### Shareholders and Shareholders Meeting

The shareholders meeting represents the highest authority of the Company and the shareholders may exercise their functions and powers at the shareholders meetings. The Company should convene shareholders meetings strictly in accordance with the Articles of Association, give notices, deliberate, vote and disclose information according to the rules of procedures, and adequately ensure that all shareholders can enjoy equal status and effectively exercise their rights to information, participation, inquiry and voting.

The Company emphasizes the protection of investors' rights and interests, and truthfully discloses the Company's business information to investors by virtue of information disclosures, shareholders meetings, company websites, performance disclosures, road shows, one-to-one communications, mailing outs of documents, interviews or reports published by the media, field visits and telephone consultations, so that the investors' right to know can be guaranteed. To further make clear a reasonable return on investment for investors, the Company has detailed its terms of the profit distribution policy and formulated its *Company Dividend Plan for the Next Three Years (2012-2014)*, *Company Dividend Plan for the Next Three Years (2015-2017)*, *Company Dividend Plan for the Next Three Years (2018-2020)* and *Shareholders Dividend Plan for the Next Three Years (2021-2023)*. During the reporting period, we convened three shareholders meetings in total.

#### Directors, Board of Directors and Affiliated Special Committees

The directors of the Company should be elected at the shareholders meeting and remain accountable to the shareholders. The term of office for the directors should be set at three years. Any director may, upon the expiration of his or her term of office, hold the directorship in consecutive terms if re-elected. The directors should adhere to the principles of diligence, honesty and pragmatism and perform their duties conscientiously for the interests of all shareholders.

The Board of Directors is a permanent decision-making authority of the Company that should be accountable to the shareholders meetings. Affiliated to the Board of Directors, there are four special committees, namely the Strategic Decision Committee, Compensation and Evaluation Committee, Nomination Committee and Audit Committee, each of which makes use of its professional knowledge for initial checking and the deliberation of the proposals submitted by the Board of Directors. The Board of Directors currently consists of 9 directors, including 3 independent directors. During the reporting period, the Board of Directors has convened twelve meetings in total, with an attendance rate of 100% of the independent directors and other directors.

The Board members are selected with consideration to diversification and comprehensiveness, and dependent on the actual situation of the Company, our business model and work needs. In 2020, the directors of the Company came from a variety of different industries. The knowledge structure and professional backgrounds associated with each director are both specialized and complementary in terms of the overall structure of the Board of Directors and showcases its diversified makeup, ensuring the scientific decision-making processes of the Board of Directors.

During the reporting period, there were no financial, business, family or other significant or related relationships between the board members and among the Chairman and the President.

#### Performance of Independent Directors

Strictly in accordance with related regulations, including the *Company Law*, the *Code of Corporate Governance of Listed Companies*, the *Guiding Opinion on the Establishment of Independent Director Systems by Listed Companies*, and corporate rules such as the *Articles of Association and the Rules of Procedure of the Board of Directors*, the independent directors of the Company have carried out their duties of fidelity and diligence and their responsibilities as independent directors, and have safeguarded the interests of the Company, and the legitimate rights and interests of all shareholders, especially minority shareholders.

The Chairman and the General Manager of the Company are served by different persons. In 2020, according to the actual situation and information submitted by the Board of Directors, and based on the principles of objectivity and independence, the independent directors issued their independent opinions with respect to the development and operation of the Company:

- Expressing an independent opinion on the nomination and appointment of directors and senior management of the Company and the Company annual profit distribution plan;
- Paying attention to the legitimate rights and interests of minority shareholders, and expressing an independent opinion on important matters affecting the interests of minority shareholders and related proposals;
- Expressing an independent opinion on the execution of the resolutions of the Board of Directors, especially on the matters of connected transactions, external guarantees, the protection of minority shareholders, majority shareholders fulfillment of commitments, management compensation, internal controls and corporate information disclosure;
- Carrying out the field surveys of the Company's key investment and production and construction projects, and making proposals for the Company's operational compliance, compensation evaluations, financial management, internal risk management, safety and environmental protection, and future development.

#### Supervisors and board of supervisors

The Board of Supervisors of the Company, in accordance with the provisions of the *Company Law* and the *Articles of Association*, faithfully performs its supervisory duties in the spirit of being genuinely responsible to all shareholders, actively and effectively carrying out its work to ensure the Company to comply with and conform to the laws and regulations of China, listing rules, the Company's *Articles of Association* and other rules, while making

progress in ensuring the Company's compliant operations and endeavouring to protect the legitimate rights and interests of the Company and its shareholders. As of the end of 2020, the Board of Supervisors of the Company had three supervisors, including one employees' representative. Meetings of the supervisors were convened a total of eleven times during the year.

#### Senior Management

The senior management, as the executive authority of the Company, is appointed by and accountable to the Board of Directors. It implements the board resolutions and organizes the production, operations and other business activities of the Company according to the provisions of the *Company Law* and the *Articles of Association* and with the authorization of the Board of Directors. The Company has one General Manager.

#### Employee Stock Ownership Plan (ESOP)

Tongwei Co., Ltd. has an employee stock ownership plan. The Company announced a 3-year ESOP at the end of 2017, which allocated stocks to core employees who made outstanding contributions to the Company based on the results of their performance evaluation. The ESOP bought 77,703,944 shares of the Company through the trading system at the Shanghai Stock Exchange, accounting for 2.00% of the Company's capitalization. The total amount was valued at RMB 897,979,400, with the average trading price at RMB 11.56 per share. The shares had a lock-up period from May 8, 2018 to May 7, 2019, and a duration of 36 months, meaning that this period was set to expire on January 5, 2021. The Company has already sold all the shares held by the ESOP; hence, the ESOP has been completed and terminated.



## PROPER AND LAWFUL OPERATION

To strengthen and regulate the internal control system and improve the level of operation and management and the risk prevention capability of the Company, Tongwei Co., Ltd. has established an internal control system in various aspects and focusing on areas of the Company's production, operations and management activities, having confirmed the effective operation of its internal control system by taking actions such as daily supervision and inspection, special audited testing, and evaluations, thus ensuring the realization of the Company's internal control objectives.

### Internal Control

In accordance with the Company Law of the People's Republic of China, the Code of Corporate Governance of Listed Companies, the Articles of Association and other regulations, the Company has established its Audit Committee of the Board of Directors and formulated its Rules of Work of the Audit Committee of the Board of Directors; Moreover, with reference to the Guidelines for the Internal Control of Listed Companies of the Shanghai Stock Exchange, the Basic Norms for the Internal Control of Enterprises and the Guidelines for Internal Control of Enterprises jointly promulgated by five ministries and commissioned by the Ministry of Finance, the Company has formulated its Internal Control and Risk Evaluation System and other internal control processes and procedures, clarifying the roles and responsibilities of its Board of Directors and Audit Committee, Board of Supervisors and Managers based on internal control mechanisms, and has thereby built an effective internal control system.

	Person-in-charge	Work Content
System creation	Board of Directors and Audit Committee	Development, improvement and effective implementation of the internal control system
Supervision	Board of Supervisors	Supervision over the establishment and implementation of internal controls by the Board of Directors
Execution	Managers	Organization and leadership of the daily management and operation of internal controls

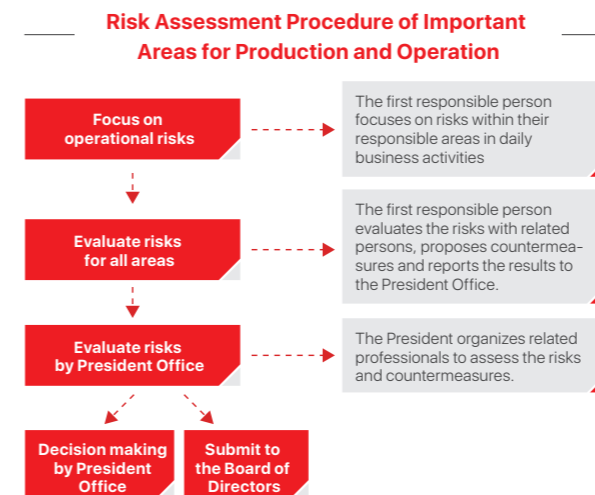
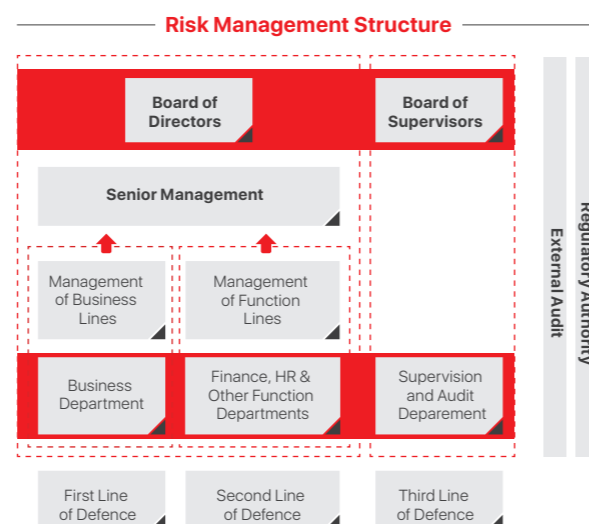
In 2020, the Company strengthened the control of connected transactions, and achieved regulated and stable operation; strictly prevented the risks on investment decisions, conducted compliance audits of various types on investment projects, and ensured the proper and lawful implementation of key projects. At an interval of once per year, we evaluated the internal control system and issued the Internal Control Evaluation Report; Moreover, we engaged an accounting firm within China for an annual audit of the compliance and effectiveness of the internal control system and issued the Internal Control Audit Report. The Internal Control Evaluation Report, the Internal Control Audit Report and the Financial Audit Report were publicly announced for being reviewed by shareholders, regulatory authorities, the public, etc. After

evaluation, the Board of Directors believed that: the internal controls of the Company operated effectively during the year, and that there were no significant defects in the design or execution of internal controls. The accountant engaged in the annual audit expressed the opinion that: in the year, the Company maintained an effective internal control over the financial reports in all material respects in accordance with the *Basic Norms for the Internal Control of Enterprises* and related regulations.

### Risk Management

To continuously improve the risk management and ensure the sustainable and steady operation, Tongwei Co., Ltd. has adopted the "three lines of defence" for risk management at the organizational level. Business departments are the first line of defence at the front-end of risk management; finance, human resources and other functional departments act as the second-line of defence of risk management; and the internal supervision and audit department is the third-line of defence. Moreover, regulatory authorities and external auditors are integrated into the risk prevention to enhance the corporate governance.

The Company assesses risks in important areas for production and operation such as key investment management, funds management, credit management, production quality management, etc. At the end of each year, the risk assessment contents, including internal and external factors triggered by risks, possibility of risks and possible outcome, risk resistance, risk management methods and effectiveness, are incorporated into the internal control system for evaluation, to improve the decision-making process and perfect the internal control system. By means of identification, assessment, response, implementation and evaluation, we can achieve the closed-loop management of the whole process of major risks.



### Funds Management

To increase the efficiency of fund utilization, optimize resource allocation, regulate the funding business, prevent funding risks, meet the funding needs for production and strategic development and maximize the overall interests, the Company formulated its Funds Management Rules of Tongwei Co., Ltd., which clearly stipulates the principles of funds management, dividing responsibilities and powers between the headquarters and each business segment, and regulating budgeted funds, fund procurement, external financing, payment and settlement, the foreign exchange business, etc. These rules form the programmatic document for the management of funds at Tongwei Co., Ltd.

As far as the management of funds settlement is concerned, to increase the efficiency of fund utilization, enhance the internal

control of funds and control financial risks, the Company introduced centralized funding management mechanisms, collecting all funds in the accounts of branch companies and subsidiaries to Tongwei Co., Ltd., transferring funds internally and making payments externally by means of a "joint transfer and payment" approach, realizing a "zero" funds standing in the accounts of branch companies and subsidiaries, strengthening the basic management and regulating the settlement mechanisms of the Company.

### Investment and Financing Management

As for the management of external investments, the Company formulated its Measures on the Investment Management of Tongwei Co., Ltd., which specifies the organization of investment management, basic principles to be followed in investment management, approval powers for investments, decision-making management for investments, transfer and recovery modes for investments, reporting mechanisms and information disclosure on significant matters, etc. The Company has strengthened the control over approvals and decision-making regarding outward investments, which must be submitted for consideration in shareholders meetings after initial consideration and approval by the Board of Directors if such investments reach specific standards.

In terms of financing management, the Company has formulated its Measures on the Financing Management of Tongwei Co., Ltd., with an aim to ensuring regulated, orderly and efficient financing activities, controlling financing risks, positively interacting with financial institutions and boosting the sustainable, stable and rapid business development of the Company.



## CONSTANTLY ADVANCING TECHNOLOGICAL INNOVATION

Scientific and technological innovation is the primary productive force and the inexhaustible driving force for the development of a country, as well as the development of enterprises. The Company has always attached great importance to technological innovation, adopting the motto of "technological innovation and cultural leadership" as our long-term management philosophy, insisting on "enhancing core competitive power through technological innovation", building up a technological innovation platform and management system, emphasizing pragmatic innovation, and highlighting the introduction, discovery and development of technology talents. Through innovative management, increased efficiency and technological breakthroughs, our vitality and core competitive power was enhanced with continuous scientific and technological innovation as well as new innovations in management.

Tongwei Co., Ltd. has established an efficient organizational system for technological innovation, setting up the technological innovation committee and technical expert committee to guide innovative research at agriculture and animal husbandry segment, creating research institutes and R&D test bases such as the aquatic research institute, special aquatic research institute, livestock research institute, facility fishery research institute, animal health research institute, testing centre, etc. and has deployed scientific and technological innovation with the industrial chain at its core. A PV Technology Centre and a Technical Expert Committee have been established to guide innovation and research with subdivisions of a PV research institute, analysis and testing centre, project management group and other scientific research institutes and R&D test bases. The PV Technology Centre focuses on R&D related to silicon, wafers, cells, modules and powerplants, and plans to expand its focus to cover the development of energy storage and hydrogen energy technology, thus realizing the technological integration of the PV industrial chain while optimizing the industrial structure and resource allocation. Moreover, through innovating motivation and incentive mechanisms, the Company drives the independent innovation of scientific and technological researchers and has created a favourable operating mechanism and a good environment for continued innovation.

### Agriculture and Animal Husbandry

In the agriculture and animal husbandry segment, based on the premise that the good ecological conditions of resources, the environment and food safety can be ensured, traditional aquaculture is able to be transformed and upgraded with intelligent controls and innovative aquaculture models. Insisted on industry-university-research collaboration, the Company has established close cooperation with both domestic and foreign research institutes, such as the Ocean University of China, Institute of Hydrobiology, Chinese Academy of Sciences, Sichuan Agricultural University and the University of

Copenhagen, Denmark. Moreover, nearly 100 joint projects have been completed as a result of such cooperation and dozens of projects have resulted in transformative research achievements.

#### CASE STUDY \ 01

##### Intelligent Aquaculture of "Fishery & PV Integration"

The Company has developed seven types of aquaculture systems in three categories, including: fixed water flow tanks, floating water flow tanks, co-constructed water flow tanks, floating circular ponds, land-based circular ponds, land-based containers, and closed circulating water aquaculture systems. These aquaculture systems have been demonstrated and promoted at our bases located in Sichuan, Hainan, Yunnan, Anhui and Hunan. Moreover, the Company has formulated four types of technical specifications and five types of fishery models. The innovative aquaculture technologies of "Fishery & PV Integration" are comprised of infrastructural systems, aquaculture models, intelligent control, water purification and tailwater treatment technologies.

#### CASE STUDY \ 02

##### Young Frog and Tadpole Feed Technology

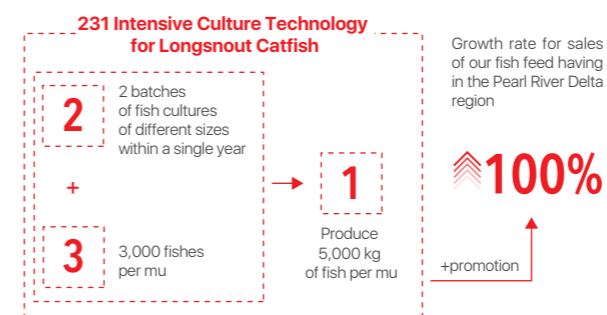
During the period after tadpoles hatch and before they begin to grow limbs, the feed formulation is designed in a targeted manner, with the feeding strategy based on different grain sizes and water management techniques associated with the aquaculture process. This can increase the survival rate of tadpoles maturing from a black bean size (or roughly the size of a peanut) to metamorphosis by 50%-60%, while also improving the uniformity of specimen sizes during the tadpole period. After their metamorphosis from tadpoles, young frogs can grow fast with a large skeleton and an increasing individual weight, with the combined weight of 10-20 small four-legged frogs amounting to 1kg, while bullfrogs meanwhile are more likely to suffer from diseases without optimal intestinal development. The feed ratio for young frogs is around 0.92, while being 1-1.05 for mature frogs. This technology has been able to help the Company increase the sale of its frogs by more than 60% in South China.

#### CASE STUDY \ 03

##### 231 Intensive Culture Technology for Longsnout Catfish

To solve issues arising from the complicated culture models adopted for longsnout catfish, as well as the mismatching of feeding varieties, unstable production per mu and long culture periods, the Company developed special feed and refined 231 aquaculture technologies for longsnout catfish. By planning for two batches of fish cultures of

different sizes within a single year, production could be increased to 3,000 fishes per mu. With the use of our special feed, we are now able to produce 5,000 kg of fish per mu. This technology can significantly shorten the culture period, reduce risks related to aquaculture and generate favourable prices. With the innovation and promotion of new models, this technology can help producers obtain better results, with the growth rate for sales of our fish feed having already exceeded 100% in the Pearl River Delta region.



#### CASE STUDY \ 04

##### Systematic Assessment of the Nutritional Value of Livestock Feed Ingredients

After the catalogue of ingredients is sorted and simplified, the primary energy and nutritional value of the protein ingredients in livestock feed can be systematically assessed. This approach can provide a foundation for the statistical data needed for precision nutrition and formula generation. Faced with rapidly rising prices for energy ingredients utilizing maize in 2020, this systematic approach provided effective substitutes for energy ingredients used in the Company's livestock feed and saved much feed cost.

#### CASE STUDY \ 05

##### Antibiotic-Free Technological Approach to Livestock Feed

To ensure a smooth transition to antibiotic-free livestock feed, the Company has applied four key technologies, including the introduction of precision nutritional parameters, a high maturation process, a low-antibiotic formulation and a comprehensive intestinal healthcare program. In this way, the Company has steadily transitioned from antibiotic-free feed used for hogs and poultry and can now offer safer, healthier and more nutritious livestock products to society.

### PV Industry

#### High-purity Polysilicon Segment

The Company has the world's largest high-purity polysilicon production line, which features one of the highest single-line output, the lowest energy consumption, and the most advantageous production costs. A circular economic industrial chain with the full integration of new energy

and chemical industries has been established by the Company, which ranges from "bittern, sodium hydroxide, PVC to carbide slag cement" and from "hydrogen chloride, trichlorosilane to new energy forms of polysilicon" setting a good example for clean production and green manufacturing in the wider industry. As the Enterprise Technology Centre of Sichuan Province and the Sichuan Polysilicon Engineering Technology Research Centre, the Company has a professional and stable R&D team that integrates production, technology and management with its powerful technical advantages, setting up a decision-making committee, an expert committee and a project department. The project department comprises a raw material preparation technology group, a reduction technology group, a cold hydrogenation technology group, a silicon core product technology group, a chemical equipment technology group, a quality technology group, an intelligent chemical plant group, a sustainable competitiveness R&D group, and a common technology group. For the advancement of the Company's R&D work, and based on the need for systematic management, the HR, finance, purchasing, safety and environmental protection staff have been arranged to ensure the smooth progress of all R&D projects. Adhering to the management philosophy of "enhancing core competitiveness through technological innovation", the Company is committed to becoming a world-class polysilicon producer and clean energy company with the polysilicon industry at its core. We insist on a combination of industry, university and research cooperation, and have established a partnership with Sichuan University, Hualu Engineering and Technology Co., Ltd., Panzhihua University, LONGi Green Energy, China Chemical Engineering Second Construction Corporation, and China National Chemical Engineering Sixth Construction Co., Ltd., integrating the advantages of leading manufacturing techniques from advanced enterprises along the industrial chain and the research strengths of universities and research institutes, facilitating the engineered implementation of advanced technologies and breakthroughs in major key technologies in the industry, and achieving cooperation between "industry, university and research" and the connectivity and sharing of advantageous resources along the industrial chain.

#### CASE STUDY \ 01

##### Research and Engineering Applications for Energy Conservation and Emissions Reduction Technologies

Centred on a circular economic industrial chain for the poly-generation of high-purity polysilicon, the Company has engaged in research on comprehensive resource utilization, energy conservation and emissions reduction technologies. With the successful development and application of related technologies, we have obtained positive economic and social benefits. In recent years, the overall comprehensive electricity consumption of the system has been reduced from 78kwh/kg.-

si to around 60kwh/kg.si, and with steam consumption having been reduced from 38t/t.si to 5t/t.si, reaching an industrial advanced level:

① We independently developed a comprehensive utilization technology for cold hydrogenation silicon tetrachloride, completed research on large energy-saving cold hydrogenation reactors and silicon tetrachloride vaporization devices, and finally realized the promotion and application of these technologies. As a result, the hydrogenation conversion rate was higher than 25%, indicating we achieved industry-leading technical indicators.

② We were able to fully adopt and reinvent the automatic control technology applied to the reduction process. Overall power consumption was reduced from 50 kwh/kg.si to 45kwh/kg.si; while the deposition rate increased from less than 75kg/h to 90kg/h, having achieved a significant increase in the reduction capacity. Hence, we made significant strides towards the target of expanding systematic output.

③ Through the implementation of new coupling distillation technology, the comprehensive utilization of heat energy reduction technology and silicon tetrachloride vaporization system technology, the waste heat in the system can now be fully utilized, with the level of steam consumption having been reduced from 38t/t.si in 2013 to within 5t/t.si today.

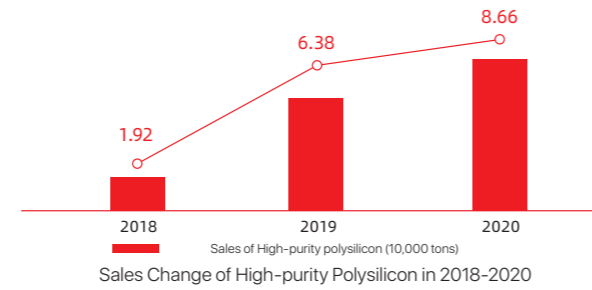
④ The silicon tetrachloride in the residual solution can now be recovered through a new process of slurry recycling, thus achieving the comprehensive utilization of solid waste with the hydrolysis residues be applied as raw material for cement. By adopting new disproportionation liquid-solid reaction process and related devices, the dangerous by-product of dichlorosilane can be recovered at a rate of 100%. In this way, the consumption of silicon and chlorine in the system can be further reduced and the clean production of high-purity polysilicon in a fully closed-looped circular economy can be realized.

**CASE STUDY \ 02**

**Promotion and Application of Key and Core Technological Achievements for the Preparation of High-purity Polysilicon**

After more than ten years, Yongxiang Co., Ltd. improved the traditional Siemens process, and independently innovated and developed a high-purity polysilicon preparation technology based on self-owned intellectual property rights. This relevant core technology has been successfully applied for use in high-purity polysilicon projects in Leshan and Inner Mongolia, setting new records in product quality and production costs. In 2020, the Company's sales volume for

high-purity polysilicon increased 22,800 tons, thus yielding positive economic benefits for the Company.



**Solar Energy Segment**

The solar energy segment has already achieved automated manufacturing for many production processes, having also built a national pilot demonstration base by integrating information technology and industrial IoT. Moreover, adhering to the integration of industry, university and research cooperation, we have maintained close cooperation with domestic and foreign research institutes, such as the Shanghai Institute of Microsystem and Information Technology, Sichuan University, Chengdu Institute of Product Quality Inspection, University of New South Wales (UNSW), Southwest Petroleum University, Institute of Physics, Chinese Academy of Sciences, Nanchang University, University of Electronic Science and Technology of China, Songshan Lake Materials Laboratory, Foshan University and Suzhou Sunwell New Energy Co., Ltd., with joint projects comprising two provincial major science and technology projects, two provincial key projects, and two projects for the transformation of research achievements.



**CASE STUDY \ 01**

**Large-size "Multi-grid" High-efficiency PERC Cells**

The Company has developed large-sized multi-grid cell products. Successful R&D efforts focusing on multi-grid high-efficiency cells contributed to an increase in the average conversion efficiency of mass-produced cells by more than 23.44%, increasing the power output of the cells and reducing the consumption of silver paste. At present, the Company's large-sized single/double-sided cells with 9 main grids have already become one of its mainstream products.



**CASE STUDY \ 02**

**Large-size "Shingled" High-efficiency PERC Cells**

The Company has developed sextuple shingled cell products with large-sized silicon wafers. Moreover, the shingled cells are divided into single-sided cells and double-sided cells. Any variety of shingled cells can be applied to high-powered shingled modules. However, the successful R&D efforts of the Company targeting large-sized shingled PERC cells has led to improvements in the output power of the modules.

**CASE STUDY \ 03**

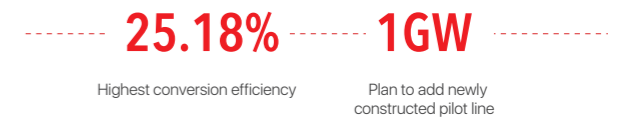
**"TOPCon" High-efficiency Cells**

The n-type tunnel oxide passivated contact (TOPCon) crystalline silicon solar cells developed by the Company can significantly reduce the recombination velocity of carriers on the cell surface and improve the PV conversion efficiency of the cells. We have achieved breakthroughs in the oxide tunneling thin film preparation process with high uniformity, high tunneling rate and low preparation cost, with the preparation process for the doped polysilicon thin film layer connecting the tunneling film and metal electrode, interface cleaning, metal paste printing and sintering preparation process and other key technologies for mass production. A TOPCon pilot line with a capacity of 500MW has been built, which can continuously promote the research work for cells new technologies.

**CASE STUDY \ 04**

**Silicon Heterojunction (HJT) High-efficiency Cells**

The Company has developed its amorphous silicon/crystalline silicon heterojunction (HJT) technology for the mass production of high-efficiency cells. To address the industrial needs of high efficiencies and low costs, we have developed a transparent conductive oxide thin film with high mobility and transmittance, as well as a high-quality silicon-based passivation film, and made great breakthroughs in the passivation and light entrapment of large-area texturing silicon surfaces, having further developed advanced materials, high-performance low-temperature silver pastes and plating technologies in close collaboration with scientific research institutes, and solving the problems arising from a high cost of metallization. Furthermore, the upstream and downstream of the industrial chain have seen increased coordination with technologies in the areas of cell stability, reliability, cost reduction technologies and the development of new cell products. At present, the highest conversion efficiency of HJT cells R&D line have achieved 25.18%. The Company will add newly constructed HJT pilot line of 1GW as of 2021.



## STRENGTHENING THE PROTECTION OF INTELLECTUAL PROPERTY RIGHTS

The Company strictly complied with the Patent Law of the People's Republic of China and the Trademark Law of the People's Republic of China, and conscientiously implemented the national standard Enterprise intellectual property management, improving the creation, application, protection and management for intellectual property rights.

### Agriculture and Animal Husbandry

For the adequate protection of intellectual property rights, the Company has formulated a strategic plan for intellectual property rights, while advancing innovation at the heights of strategic risk control, issuing its Measures on Patent Management, controlling internal and external risks related to intellectual property rights, protecting our own intellectual property rights and has respected the intellectual property rights of others. The Company has stressed the importance of the rate of conversion and implementation of intellectual property, requiring intellectual property to be linked with the market and related achievements to be implemented, so that they can become more targeted and efficient and guarantee the sustainable and stable development of Tongwei Co., Ltd.. Moreover, the Company has filed applications for patents and trademarks, maintaining and protecting them, and has ensured the stability of the Company's intellectual property rights.

In 2020, the Company applied for 58 new patents, including 23 invention patents. It has now applied for a total of 699 patents and has obtained 506 patent authorizations, including 156 invention patents. The Company was approved to establish the Working Group for Testing Methods Standardization of the National Technical Committee on the Feed Industry of the Standardization Administration of China, marking an important step in our active participation in national standardization efforts. Two national standards and two industrial standards revised by the Company were officially released and implemented this year. The revision of the two industrial standards with our participation has passed the preliminary review, while the revisions for another nine national standards and five industrial standards that we presided over or participated in are now ongoing. The new energy segment has issued the first composite group standard together with the China Fisheries Association,

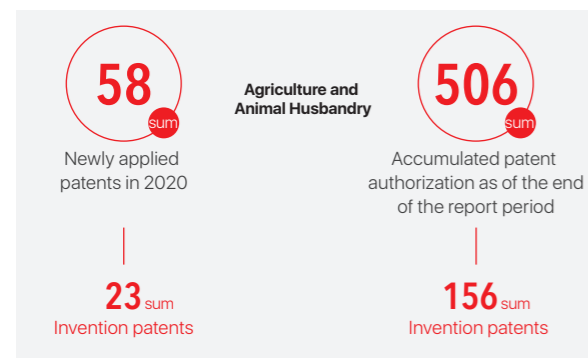
namely the "General Technical Specification for the Integration of Fishery and PV" (T/SCFA0001-2020), which was officially promulgated and implemented in January 2021.



### PV Industry

#### High-purity Polysilicon Segment

The competition has become increasingly fierce in terms of innovation and knowledge, so the Company has responded by attaching greater importance to intellectual property rights. In this regard, we established an intellectual property management system and working mechanism, strengthening independent innovation and patent applications and management, as well as enhancing studies and communications on intellectual property and raising awareness on intellectual property rights. On this basis, the Company has relied on our own strength in terms of our technology centre, increasing R&D investment and strengthening the construction of enterprise R&D institutions; actively building up an enterprise-led alliance of industry, university and research; actively developing core technologies with independent intellectual property rights; actively participating in the formulation of industry standards, national standards and international standards for polysilicon with independent intellectual property rights; vigorously implementing and industrializing patented technologies, while continuously increasing the proportion of products under protection, and enhancing the transfer, implementation and industrialization of new technologies and processes with independent intellectual property rights. By relying on the Enterprise Technology Centre of Sichuan Province and the Sichuan Polysilicon Engineering Technology Research Centre, a platform for the creation of intellectual property was built with the integration of technological research, development, transformation and applications. In 2020, the Company's intellectual property management system successfully passed its second supervisory audit. The Company built a patent database, providing training on the exploration of high-value patents and convened an inaugural meeting after establishing the Intellectual Property Rights Alliance of the Sichuan Silicon Materials Industry. The Company continues to stress the protection of intellectual property rights, and according to the development needs of the silicon materials industry, seeks intellectual property rights for core technologies. In 2020, the Company applied for a total of 102 patents, 18 inventions and 84 utility models.



Up to 2020, the Company has been honored as a National Advantage Enterprise in Intellectual Property, National Green Factory, First Green Manufacturing Demonstration Unit of Sichuan, Intellectual Property Advantage Cultivation Enterprise of Sichuan, Postdoctoral Innovation Practice Base of Sichuan, Science and Technology Enterprise of Leshan, and Wutongqiao Innovation and Entrepreneurship Park (Incubation Base) for College Students and Science and Technology Talents. We also won the awards of the Second Prize of Sichuan Science and Technology Progress Award, Outstanding Winner of Leshan Science and Technology Progress Award, the First Prize of Sichuan Patent Award, China Patent Excellency Award, and Innovation and Entrepreneurship Prize of Sichuan Patent Award. In 2020, the Company was granted 76 patents, including 2 inventions and 74 utility models, and 5 software copyrights, while having participated in the formulation of the industry standard Norm of Water Intake - Part 47: Polysilicon Production, and the group standard Assessment Requirements for a Green Factory in the Polysilicon Manufacturing Industry, formulating 150 enterprise standards for products and operations/technology, and completing one registration for research achievements.



To strengthen the legal protections of intellectual property rights, the Company actively participated in the training program entitled Patent Information Retrieval and Analysis organized by the Sichuan Intellectual Property Service Promotion Centre and the Intellectual Property Work Training Session organized by the municipal intellectual property promotion centre. In addition, the Company actively offered internal training for intellectual property publicity, inviting a patent firm to provide a training program on the exploration of high-value patents in April, which required that the training rate for the Business Secret Management System should reach 100% among our employees and all departments complete studying the Management Manual of the Intellectual Property Management System and the Intellectual Property Procedures Document, successfully raising our employees' awareness of intellectual property rights. Through publicity and related training, awareness on intellectual property rights was continuously enhanced and intellectual property management was put into effect in the Company.

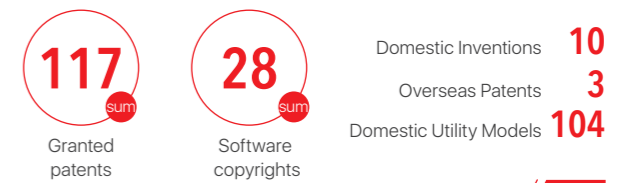


### Solar Energy Segment

Tongwei Solar Co., Ltd. attaches great importance to intellectual property rights, and has improved its mechanisms for the protection of intellectual property rights, incentive and early warning systems, while comprehensively strengthening risk control and response strategies with respect to intellectual property rights, as well as the management of the determination and protection of the rights, operation and risk control of patents. In 2020, Tongwei Solar (Hefei) Co., Ltd., Tongwei Solar (Anhui) Co., Ltd. and Tongwei Solar (Chengdu) Co., Ltd. passed the national standard audit of GB/T 29490-2013 Enterprise Intellectual Property Management. Tongwei Solar Co., Ltd. has laid stress on technological innovation and protection, strengthening the textual review of patent technology transformation, and implementing the protection of innovation achievements with legally valid patent texts. In 2020, it applied for 108 patents, 39 inventions and 69 utility models. As for the transformation of its intellectual property achievements, the Company consistently insists on driving economic benefits through technological innovation, fully implementing patent protections for the mass production of PERC technology and HJT technology, and facilitating the protection of patents or technical secrets for forward-looking technologies.

Up to 2020, the Company won the qualifications and awards of the Second Prize of Sichuan Science and Technology Progress Award, Chengdu Academician (Expert) Workstation, Postdoctoral Innovation Practice Base of Sichuan, Chengdu Model Worker and Craftsman Innovation Studio, the First Prize of "Golden Panda" High Value Patent Cultivation Competition, Anhui Patent Excellence Award, Intellectual Property Application Pilot of Industrial Enterprises and National Intellectual Property Demonstration Enterprise, etc. In 2020, Tongwei Solar Co., Ltd. was granted 117 patents and 28 software copyrights, including 10 domestic inventions, 3 overseas patents (USA) and 104 domestic utility models. It published three papers, including one EI paper.

To strengthen the legal protection of intellectual property rights, the Company organized a total of 15 intellectual property training sessions both offline and online, with 3,000 trainees in attendance.



Published three papers, including ONE EI PAPER.

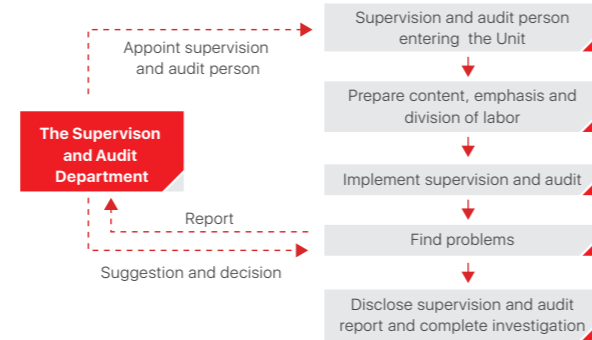
## PROMOTING UPRIGHT PRACTICE

The Supervision and Audit Department is responsible for promoting upright practice work in the Company and reporting to the Board of Supervisors. This department exercises its supervision and audit duties in accordance with supervision and audit workflow and rules. The Board of Supervisors is responsible for supervising and auditing the work of the Supervision and Audit Department and the units at all levels, with supervised and audited units also having the right to supervise and audit the performance of duties and compliance with regards to the disciplinary measures issued by the supervision and audit persons.

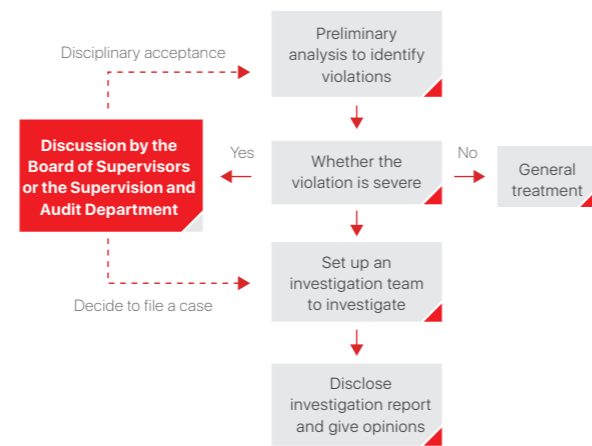
The Supervision and Audit Department has established a reporting and complaints system. Customers and employees have the right to file complaints or report to the department regarding the cadres and employees at the headquarters, branch companies and subsidiaries for reasons of violating laws, discipline or dereliction of duty. The department should protect the whistleblowers and reward those who make contributions during the reporting process.



The Company's supervision and audit work is divided into routine supervision and audit and special supervision and audit. Routine supervision and audit refers to regular or irregular supervision and audit activities; while special supervision and audit refers to supervision and audit focusing on a problem or a certain aspect of the problem.



Procedures of Routine Supervision and Audit



Procedures of Special Supervision and Audit

## INTEGRATING DIGITAL OPERATIONS AND MANAGEMENT

In 2020, the Company accelerated its digital transformation, and through the upgrading and promotion of its digital marketing platform, provided customers with a convenient and efficient service experience, helping salespersons to know promptly about customer needs and market dynamics, and supporting the Company's customer-centric strategic transformation. The Company has continued to integrate the upstream and downstream ecosystems of its supply chain with digital technology, strengthening its direct connectivity and level of efficient collaboration with strategic suppliers, improving business efficiency from ordering to settlement with suppliers, and building an integrated and win-win supply chain ecosystem. We have continued to deepen the application of new technologies, such as RPA and AI, propelling the transformation of intelligent finance, establishing an efficient and intelligent operations system, and boosting the excellent operations of the Company.

### CASE STUDY \ 01

#### Constructing Digital Factories with Upgrading Intelligent Manufacturing

Yongxiang Co., Ltd. adopted the "five new ideas" as the driving forces for the planning and construction of digital factories, centred on the five themes of "safety, environment, quality, cost and efficiency", having integrated digitalization and intelligence into the whole process of design, construction, factory operations and management, while achieving digitalized production, intelligent operations management and smart decision support, and continuously advancing the reform of Yongxiang's models of production, operations and decisions.

<sup>2</sup> New technological innovation, new intelligent factory, new product orientation, new strategic positioning, new core competitiveness

Tongwei Solar Co., Ltd. has obtained a dual-integration management system certification. Its Chengdu base has the world's first Industry 4.0 high-efficiency solar cell production line, which has realized fully automated intelligent manufacturing, taking the lead in digital workshops and intelligent factories, and actively building a national demonstration base of intelligent manufacturing. Furthermore, with the Jintang project being launched as a pilot, the Company will also begin applying 5G+ in the field of industrial Internet.



### CASE STUDY \ 02

#### Smart Cloud Platform for Fishery & PV Integration

With the aim to fulfill the strategic demand for the smart transformation of PV powerplants and the specific needs of powerplants for work safety, enhancements to production, operations and maintenance efficiency, as well as the goals of achieving cost reductions and increased efficiency, FUSION LINK partnered with Huawei to build a Smart Cloud Platform for Fishery & PV Integration, which is a smart powerplant solution that

embraces a business model based on fishery and PV integration. The platform was self-developed by FUSION LINK to resolve the problems associated with low management efficiency, an excessive number of devices, as well as the overly wide distribution and scattered management of powerplants. The platform gives full play to modern IoT technologies, realizing the unified monitoring of powerplant equipment through smart IoT devices, sorting out and analysing the operations and management data of powerplants using big data, artificial intelligence and other technologies, while achieving continuous cost reductions and increased efficiency by patrolling facilities with drones and unmanned vessels and by adopting smart feeding and oxygenation, and increasing the efficiency and quality of operations and the maintenance management of PV powerplants.

Since the platform went live, its operation and maintenance efficiency has been significantly improved, with the patrolling efficiency having increased by nearly 60%, the patrolling frequency being reduced by nearly 50%, the fault locating accuracy increasing by nearly 80%, and the average annual loss saving at 1-2% of the total power generation.



#### Smart Cloud Platform for Fishery & PV Integration

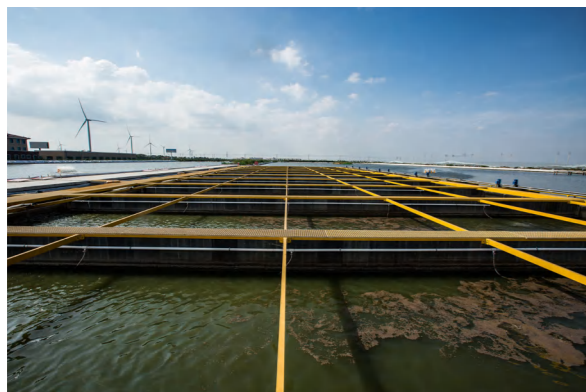


## STRENGTHENING INFORMATION DISCLOSURE AND PROTECTING LEGITIMATE RIGHTS AND INTERESTS OF INVESTORS

To regulate the information disclosure of the Company and related obligors, realize legally compliant operations, protect the legitimate rights and interests of the Company and its investors, and strengthen the management of information disclosure, the Company has formulated and amended the Information Disclosure Management System, the Liability for Material Errors in the Information Disclosure of the Annual Report, and the Internal Reporting System for Material Information, which specify the information disclosure behaviours of related obligors, clarifying the preparation, consideration and disclosure procedures for reports to be disclosed and regulated information disclosure behaviours. The Company discloses annual reports, semi-annual reports, interim announcements and other information on the website designated by the China Securities Regulatory Commission with related requirements. In the evaluation results regarding information disclosure for listed companies as announced by the Shanghai Stock Exchange, the Company ranked "A" from 2017 to 2019 for three consecutive years.

### Disclosure of Environmental Information

The Company promptly discloses emission information on wastewater and waste gas, dump sites for solid (hazardous) waste, the operational status of treatment facilities, emission permits and administrative permits for environmental assessments, emergency plans, monitoring information, and so forth, by way of the environmental information disclosure network for enterprises and institutions in their respective localities.



## RESPONSES TO CLIMATE CHANGE

The severity of impacts from climate change is regarded as a common challenge for humankind. The Chinese government strongly supports the Paris Agreement and continues to promote international cooperation in addressing climate change. At the 75th session of the United Nations General Assembly, the Chinese government ensures its "3060" carbon target – aiming to achieve carbon dioxide emissions peak before 2030 and carbon neutrality before 2060.

To address climate change and sustainability, Tongwei Co., Ltd. actively responds to China's policies and actions. We built up an energy supply system that matches our electricity consumption level in the long term, to achieve our Group-wide carbon neutrality target in 2023. The Company gradually improves the mechanism of addressing climate change,




strengthens the control on carbon emissions and enhances our adaptability to climate change. Positively responding to inquiries from investors and the public about the Company's environmental protection management and implementation of carbon emissions management, as well as jointly planning future long-term development strategies.

With reference to the suggestions from the Task Force on Climate-Related Financial Disclosures (TCFD), and climate-related policies such as the Enhancing Climate Actions: Annual Report on Actions to Address Climate Change (2020), the Company has conducted climate risk assessments for its main business segments and has established management strategies for climate change mitigation and adaptation.

### Responses to Major Climate Risks

Primary Risks	Secondary Risks	Description	Countermeasures
Transformation risks	Market risks	By the end of the reporting period, consumption in thermal electricity has still accounted for the majority of China's current energy consumption, which brought a risk of overcapacity.	<ul style="list-style-type: none"> <li>Engaging in research on clean production technologies and the in-depth optimization of a green industrial chain for the PV industry;</li> <li>Speeding up the realization of affordable access to the grid;</li> <li>Continuously conducting R&amp;D (Research &amp; Development), successfully performing cost reduction while increasing efficiency, to stay competitive in the marketplace.</li> </ul>
	Technical risks	Grid regulation, smart grid construction and the development of energy storage technologies have yet to meet our expectations.	<ul style="list-style-type: none"> <li>Strongly promoting the application of distributed power supply and grid connection (including microgrid) technologies, as well as the development and application of large-capacity electric energy storage technologies.</li> </ul>
Physical risks	Water resource risks	Water intake and use lead to higher operating costs; in the multifunctional fishery and PV town ecological park, a higher aquaculture density causes environmental pressures.	<ul style="list-style-type: none"> <li>Developing water recycling technologies;</li> <li>Continuously optimizing and upgrading wastewater treatment recycling systems;</li> <li>Implementing plans to reduce water consumption for the core businesses.</li> </ul>
	Climate resilience risks	The distribution and development of solar energy is affected by natural conditions, such as seasonality and geographical distribution, and its intermittency and volatility will affect grid stability.	<ul style="list-style-type: none"> <li>Mapping the optimal ratios for wind power and PV development in different regions, namely the optimal ratio of PV under the most stable situations for power generation;</li> <li>Developing energy storage technologies and enhancing multi-energy complementary applications.</li> </ul>
	Natural disaster risks	The frequent occurrence of extreme weather globally may cause greater operational risks to the grid business segment.	<ul style="list-style-type: none"> <li>Improving grid resilience through grid reconfiguration, embedded storage, redundancy and voltage management;</li> <li>Under severe weather conditions, actively managing available network redundancies, distributed power generation and energy storage that can secure power transmission and enable the rapid restoration of service after a grid failure.</li> </ul>

### Identification of Key Climate Opportunities

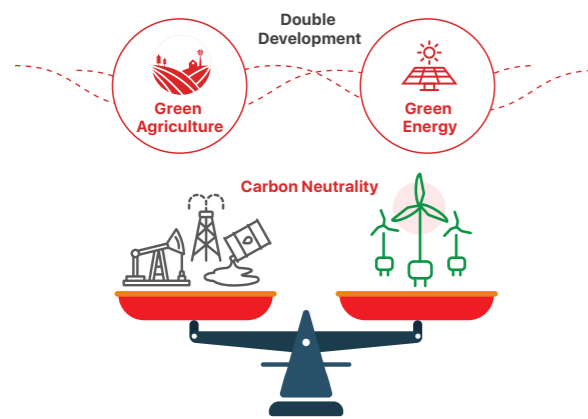
	<b>Resource Acquisition</b>	The solar energy required for PV power generation is a renewable and clean energy.	<ul style="list-style-type: none"> <li>Proposing an eco-industry chain, improving acquisition rate and utilization rate of solar energy.</li> </ul>
	<b>Market Expansion</b>	The PV industry is a clean energy industry actively supported by the State. It is expected to have a powerful market under the background of "3060" carbon dioxide emissions peak and carbon neutrality.	<ul style="list-style-type: none"> <li>Continuously upgrading clean and energy-conserving production technologies;</li> <li>Upgrading energy production conservation configurations;</li> <li>Increasing the proportion of PV power generation.</li> </ul>
	<b>Low Carbon Production</b>	The Company is increasing the proportion of its production processes focusing on a clean environment and green economy.	<ul style="list-style-type: none"> <li>Utilizing clean and energy-conserving production technologies, reforming existing production techniques, to further achieve energy conservation, reduce carbon emissions, and optimize full production costs.</li> </ul>

# PRACTICING GREEN DEVELOPMENT

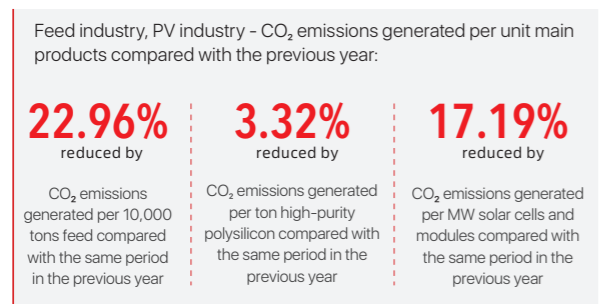


## PROMOTING THE TRANSFORMATION OF THE ENERGY STRUCTURE AND ACHIEVING THE GOAL OF CARBON NEUTRALITY

As a leading enterprise in the PV industry and the agriculture and animal husbandry industry, we insist on fulfilling our responsibility and mission, keeping "double development" in green energy and green agriculture, reforming a green, low-carbon and circular economic development model, continuously upgrading our production technologies and processes, optimizing industrial structures, promoting the healthy and sustainable development of the PV industry, boosting the national transformation of energy structures and achieving "carbon dioxide emissions peak, carbon neutrality".



The Company has continuously strengthened the management on carbon emissions, unified its management system, adopted a two-level control approach from the headquarters to segments, and has taken management responsibilities for carbon emissions at all levels. Moreover, the Company has gradually improved its overall work proposal, direction and goals for carbon emissions compliance, strengthening its carbon emissions management, optimizing and upgrading its clean energy supply system through carbon offsets, energy conservation and CQC-carbon footprint certifications, promoting green transformation, creating a green corporate image and realizing sustainable development. In 2020, Tongwei Co., Ltd. and its branch companies and subsidiaries, during their production and operations, generated 6,038,665.94 tCO<sub>2</sub>, with the carbon dioxide emissions per million RMB sales revenue equating to 136.62 tCO<sub>2</sub>.



### Carbon Emissions Management

As a leading enterprise in the PV industry, the Company adequately implemented the Guiding Opinions on Integrating and Strengthening Efforts in Climate Action and Ecological and Environmental Protection promulgated by the Ministry of Ecology and Environment, took the lead in conducting an annual carbon verification in 2017 and conducted a scientific, systematic and intuitive analysis of greenhouse gas emissions.

To further fulfill the national strategic goals of "carbon dioxide emissions peak and carbon neutrality", Tongwei Group has internally built up an promotion working group to achieve "carbon dioxide emissions peak and carbon neutrality", which is responsible for the construction of a clean energy supply system and the overall work planning, direction and setting of goals for carbon emissions reductions and carbon neutrality compliance. The promotion working group has an executive team responsible for the follow-up work of government coordination, data preparation, carbon neutral work planning and management, and development and construction proposals for the PV power-plants. Under the leadership of the promotion working group, Yongxiang Co., Ltd., a subsidiary of Tongwei Co., Ltd., has established a carbon asset management department to carry out its carbon neutrality work proposal and ensure that the goal could be achieved on schedule.

### Carbon Reduction Measures

#### Carbon Offsets

In 2020, about 54.16% of the total annual electricity consumption of the PV manufacturers of Tongwei Co., Ltd. came from hydropower. Through the development of "Fishery and PV Integration" project, the green power generated by PV power-plants can offset the carbon emissions generated by thermal power generation, contributing to the goal of finally achieving carbon neutrality.

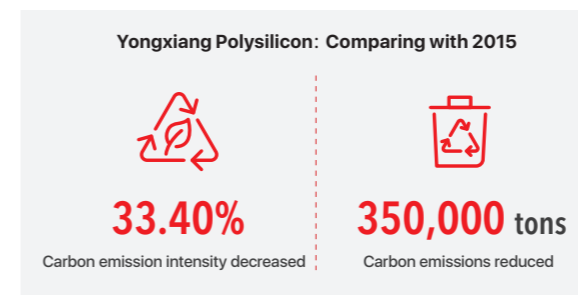
#### Energy Conservation

The business segments of Tongwei Co, Ltd. continue to upgrade and optimize clean production and energy conservation technologies, expanding the adoption of energy-conserving production equipment, significantly reducing resource consumption and carbon emissions during operating periods, and ultimately achieving efficient plant operations, green plants and parks, maximized output, minimized environmental impacts, and optimized economic benefits.

### CASE STUDY

#### Yongxiang Conserved Energy Use and Reduced Carbon Emissions

Sichuan Yongxiang Polysilicon Co., Ltd. achieved greater energy conservation and consumption reductions, significantly reducing its CO<sub>2</sub> emissions, while maintaining efficient production, through enacting consumption and emissions reduction measures such as **shifting from coal to electricity, shifting from hydrogen production using methanol to electricity, reductions in the consumption of silicon powder, while implementing waste heat recovery to produce steam, a one-click control of the full process of reduction**, and integration with the intelligent control platform for additional polysilicon reductions. In 2020, the carbon emissions of Sichuan Yongxiang Polysilicon Co., Ltd. was reduced by 33.4% compared with 2015, with 350,000 tons of carbon emissions reductions having been achieved.



### Carbon Footprint Verification

To have a comprehensive understanding of the current level of carbon emissions and prepare for further carbon emissions reductions and carbon neutrality, the Company has taken the lead in conducting and completing a **carbon footprint verification and enterprise carbon emissions review**. Products like polysilicon and solar cells are green, clean, low-carbon and environmentally friendly, whether from its raw material acquisition, manufacturing, or their entire life cycle. The Company's solar-grade polysilicon products conform to the related requirements of *ISO/TS14067:2013 Greenhouse gases - Carbon footprint of products - Requirements and guidelines for quantification and communication* and *PAS 2050:2011 Specification for the assessment of the life cycle greenhouse gas emissions of goods and services*.

As of the end of the reporting period, the subsidiary, Tongwei Solar Co., Ltd., and several branch companies of Yongxiang Co., Ltd., passed the product carbon footprint verifications. While highlighting carbon emissions produced throughout the product lifecycle, these verifications are of great significance for reducing the high environmental cost of products, optimizing the Company's full production costs and tapping the potential for exploiting environmental costs.



## STRENGTHENING ENVIRONMENTAL PROTECTION MANAGEMENT AND POLLUTION PREVENTION AND CONTROL

Tongwei Co., Ltd. strictly complied with relevant laws and regulations, including the Environmental Protection Law of the People's Republic of China, Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution, Water Pollution Prevention and Control Law of the People's Republic of China, and Standard for Pollution Control on Hazardous Waste Storage, and has internally formulated and implemented several environmental protection management systems, such as:



The Company strictly adhered to the work objectives of environmental protection and safety, implemented laws and regulations related to environmental protection and environmental safety, and effectively run an ISO14001 environmental management system.

Tongwei Co., Ltd. has adopted the three-level control of headquarters, segments and factories/offices, implementing environmental protection responsibility targets at all levels, and clarifying energy conservation and environmental protection responsibilities for each branch company and subsidiary. The headquarters established a safety and environmental protection committee responsible for the planning of environmental protection emergency plans. Each of the branch companies and subsidiaries established a special safety and environmental department to supervise and manage environmental factors within factories, assessed environmental violations, and conveyed the spirit of environmental protection files, so as to ensure the implementation of carbon emissions management measures at all levels and the effective management and supervision of environmental protection, while achieving energy conservation and consumption reductions as well as reducing pollutant emissions. As of the end of the reporting period, several branch companies and subsidiaries, including Tongwei Solar Co., Ltd. and Yongxiang Co., Ltd., have successfully obtained ISO14001 environmental management system certifications.

### Environmental Risk Management

Tongwei Co., Ltd. has strengthened its management and control capabilities for environmental risks. Its branch companies and subsidiaries have established a total-process environmental risk control mechanism comprising environmental supervision and monitoring, the prevention of environmental hazards and risk emergency management, striving to achieve the goal of "zero non-compliance" for environmental protection.

- Environmental Supervision and Monitoring**
  - Strictly implementing the emissions permitting management system: Lawfully formulating and carry out the annual work proposal for emissions permits, and regulating the emissions discharge according to permits, self-monitoring, information reporting and disclosure.
  - Strictly executing the management system for the online monitoring of pollutants: Strengthening the implementation of monitoring responsibilities, regulate daily monitoring, keeping records of monitoring and management, enhancing the disclosure management of monitoring results; improving the inspection and maintenance of online monitoring equipment, and ensuring the continuous monitoring of pollutant emissions, and accurate and effective data transmission.
- Prevention of Environmental Hazards**
  - Internal and external environmental supervision and inspection: Introducing a combination of regular (monthly, quarterly, annual, etc.) and irregular internal environmental supervision and review procedures, and combining the environmental inspection results of governmental authorities, following up and promoting rectification plans and implementing control measures.
  - Enhancing the inspection and controlling of environmental hazards: Making plans for the inspection and control of environmental hazards, thoroughly inspect hazards for environmental protection facilities, systems and equipment, such as those for dust, wastewater and hazardous waste, building up a system of Records on the Administration of Precursor Chemicals and conducting regular verification and updates.
- Environmental Emergency Management**
  - Strictly implementing emergency response filing procedures for environmental incidents: Strictly implementing laws and regulations, such as the Emergency Management Measures of Environmental Emergencies, lawfully preparing and revising the emergency plans for environmental emergencies and report records to local environmental authorities.
  - Making plans for and regulating emergency drills: Carrying out emergency drills in response to environmental incidents with a serious impact on the environment, such as "ammonia leakage" or the "leakage of hazardous chemicals". Testing the emergency linkage mechanism and enhancing capabilities for rapid and coordinated responses to emergencies.

### Environmental Protection Training

To further go ahead with the action plan of the green "double development" and raise awareness on environmental and ecological protection, Tongwei Co., Ltd. has guided employees to actively participate in construction activities along its green "double development". On the one hand, we have constructed and developed diversified environmental knowledge training themes, including knowledge training on environmental laws and regulations, environmental factor identification and evaluation training; on the other hand, we have held environmental protection publicity and education activities, such as EHS knowledge competitions, comprehensive environmental emergency response drills, cultural creativity activities on safety and environmental protection, and one picture, one story for environmental protection; the philosophy of "green, low carbon and environmental protection" can hence be deeply rooted in the mind of employees to promote the sustainable and steady development of the Company. In 2020, 213 environmental protection training sessions were carried out, which lasted 386 hours.

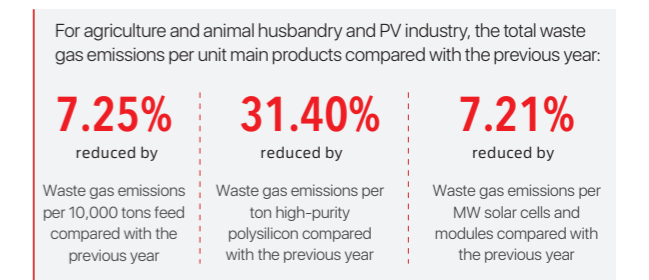


### Strengthening Prevention and Control at the Source and Making Concentrated Efforts on Pollution Prevention and Control

Tongwei Co., Ltd. strictly complied with relevant laws and regulations, such as the Environmental Protection Law of the People's Republic of China, Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution, Water Pollution Prevention and Control Law of the People's Republic of China, and the Standard for Pollution Control on Hazardous Waste Storage, and has internally formulated and implemented management systems, such as its Wastewater Discharge Management System, Hazardous Waste Management System, Garbage Management System and Environmental Protection Facilities Management System, adhering to the principle of prevention and control at the source, reasonably controlling the discharge of pollutants, comprehensively deploying pollution prevention and control and realizing recycling and compliant emissions through wastewater treatment and utilization, exhaust gas emissions controls, solid waste recycling and disposal as well as safe transportation. In 2020, Tongwei Co., Ltd. has launched and implemented 39 environmental protection projects with a total investment of about RMB152 million.

### Enhancing the Scientific Prevention and Control of Air Pollution

To implement the Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution, Tongwei Co., Ltd. strictly complied with relevant national and local environmental protection standards, such as GB14554-1993 Emissions standards for odor pollutants, DB37/2801.7-2019 Emissions standard on volatile organic compounds - Part 7: Other industries, while regulating our comprehensive emissions standards and industry emissions standards for air pollutants, actively treating waste gas, controlling the emissions of specific pollutants to the atmosphere, reducing air pollution and protecting and improving the environment. In 2020, the total annual emissions of air pollutants generated by the Company was 394,829.47 tons, which decreased by 17.68% compared with the previous year. The total emissions of air pollutants per million RMB sales revenue was 8.93 tons, which decreased by 30.06% compared with the previous year.



Main Business	Category of Main Air Pollutants	Treatment Methods
PV industry	Sulfur dioxide, nitrogen oxides, particulate matter, chlorine, sulfuric acid mist, ammonia, fluoride, hydrogen chloride, volatile organic compounds, etc	Absorbing waste gas emissions by spraying and washing with alkaline solution and water, etc. to achieve discharge.
Agriculture and animal husbandry	Dust, exhaust gas	Drying and cooling: application of bag dust collector; Exhaust gas treatment: recycling of exhaust gas; Packing: effective substitute of traditional cloth bags.

### CASE STUDY

#### Opportunity for Building a "Five-Star Environmental Protection System"

In 2020, Sichuan Yongxiang New Energy Co., Ltd., a subsidiary of Yongxiang Co., Ltd. owned by Tongwei Co., Ltd. aimed to build a "Five-Star Environmental Protection System", simultaneously taking measures of improving employee environmental protection consciousness, optimizing process, upgrading equipment and field standardization to achieve "emissions reductions and efficiency increases". For example, with the 802A tail gas recovery system

renovation project, Sichuan Yongxiang New Energy Co., Ltd. could averagely recover 2.50 tons of chlorosilane, conserve 1.65 tons of lime per day, and achieve an annual cost savings of RMB2.741 million.



"Five-Star Environmental Protection System"  
Cold Hydrogenation Tail Gas Recycle System

**2.50 tons**

Daily recovery of chlorosilane

**1.65 tons**

Daily lime conservation

**2.741 million RMB**  
Annual cost savings

### Enhancing Wastewater Treatment Capacity

Tongwei Co., Ltd. strictly complied with relevant laws and regulations, such as the Water Pollution Prevention and Control Law of the People's Republic of China and the Environmental Protection Law of the People's Republic of China. The Company has formulated and implemented internal wastewater management systems such as its Wastewater Discharge Management System and Three Waste System, regulating the Company's discharge of production wastewater and domestic wastewater, strengthening the control of water pollution, promoting the resource utilization of wastewater, continuously optimizing and upgrading the treatment techniques and devices used for production wastewater and domestic wastewater, and has effectively improved the wastewater treatment capacity and quality. In 2020, the Company generated a total of 10,172,677.10 tons of wastewater, and the total wastewater discharge was 230.15 tons per million RMB sales revenue.

Main Business	Category of Wastewater	Treatment Methods
 PV industry	Production wastewater	Neutralization+ Physico-chemical; Adopting the use of a buried domestic wastewater treatment device or divert domestic wastewater to a wastewater treatment station for treatment.
	Domestic sewage	
	Fluoride	Physico-chemical fluoride removal system.
 Agriculture and animal husbandry	Little production wastewater	AAO process.

PV industry - Wastewater discharge generated per unit main products compared with the previous year:

**11.55%**  
reduced by

Wastewater discharge generated per ton high-purity polysilicon compared with the previous year

**5.21%**  
reduced by

Wastewater discharge generated per MW solar cells and modules compared with the previous year

### CASE STUDY \ 01

#### Introduction of Refined Wastewater Treatment Technologies and the Realization of Wastewater Recycling

Sichuan Yongxiang New Energy Co., Ltd., a subsidiary of Yongxiang Co., Ltd. refined the wastewater treatment by implementing "clean water-wastewater diversion, rain-sewage diversion and wastewater-wastewater diversion", thus increasing the recycling rate of chlorine-containing wastewater and reducing costs of wastewater disposal.



Wastewater Treatment Station/Technical Treatment Process

### CASE STUDY \ 02

#### The first World-wide "Fishery & PV Integration" as a Green Innovative Development Model

In December 2015, the world's first green innovative model of Tongwei Co., Ltd. based on the "Fishery and PV Integration" project had its grid-connected and began generating electricity, namely Tongwei Co., Ltd.'s "Fishery and PV Integration" Project located in Rudong, Jiangsu Province. This project adopted a bottom blowdown system for treating pollutants in aquaculture wastewater. The system discharged wastewater containing nitrogen, phosphorus and organic nutrients, which can then be used to produce efficient organic fertilizer after exposure to sunlight and fermentation so as to achieve comprehensive waste utilization and provide green solutions for aquaculture-related pollutants and green feeding. This project has won honors of Advanced PV technology demonstration base and Outstanding fishery farming combination demonstration base.

### Comprehensive Utilization of Waste Resources

Tongwei Co., Ltd. strictly complied with relevant national and local environmental protection laws and regulations. The Company has formulated and implemented the Solid Waste Management System and the Regulations on the Treatment of Hazardous Waste, actively promoting the resource utilization of waste, regulating the management of solid waste discharge, effectively achieving safe transfers and effective monitoring, and preventing and controlling waste

pollution. In 2020, Tongwei Co., Ltd. generated 74,465.64 tons of solid waste, with the total solid waste discharge amounting to 1.68 tons per million RMB sales revenue, and of which only 651.76 tons of hazardous waste were generated, which was 81.99% lower than the previous year. The discharge of hazardous waste per million RMB sales revenue was 0.01 tons, which was reduced by 84.70% compared with the previous year.

PV industry - Waste discharge generated per unit main products compared with the previous year:

**16.93%**  
reduced by

Hazardous waste discharge per ton high-purity polysilicon compared with the previous year

**96.50%**  
reduced by

Hazardous waste discharge per MW solar cells and modules compared with the previous year

**75.60%**  
reduced by

Solid waste discharge per MW solar cells and modules compared with the previous year

Main Business	Category of Solid Waste	Category of Main Pollutants	Treatment Methods
 PV industry	Non-hazardous (general) solid waste	Sludges, ammonium sulfate liquid waste and packing materials waste, etc.	Setting up a residue shed for temporary storage. Finally the waste could be used as the raw materials by cement plants.
	Hazardous (dangerous) solid waste	waste active carbon, hazardous waste with acid or alkali and waste engine oil, etc.	Entrusting qualified organizations to dispose of such hazardous waste. Moreover, the records of hazardous waste storage and sale should be properly kept, and a transportation contract should be signed with organizations qualified to dispose of hazardous waste.
 Agriculture and animal husbandry	Non-hazardous (general) solid waste	Non-hazardous feed waste	Recycling the recyclable portion; selling and disposing of non-conforming products or non-recyclable portions that can be re-granulated until conforming.

In agriculture and animal husbandry, all solid wastes generated during the production and operation of the Company are non-hazardous waste. More than 60% of solid wastes are recycled, and the non-recyclable portions are recycled within the Company or sold out for disposal. In 2020, the whole industrial chain of Tongwei Co., Ltd.'s agriculture and animal husbandry business generated 1,873.42 tons of waste, without any hazardous wastes.

In the PV industry, the main products are high-purity polysilicon, solar cells and modules, which mainly generated solid wastes such as

sludges from wastewater treatment stations, waste active carbon and waste engine oil. The sludges from wastewater treatment stations, which are non-hazardous, can be used as resources by cement plants, but waste active carbon and waste engine oil are hazardous and must be delivered to qualified waste disposal organizations for compliant disposal or comprehensive utilization. The entire process shall be strictly managed according to the solid waste measures. In 2020, the PV manufacturers of Tongwei Co., Ltd. generated 71,106.25 tons of solid waste, including 276.36 tons of hazardous waste.



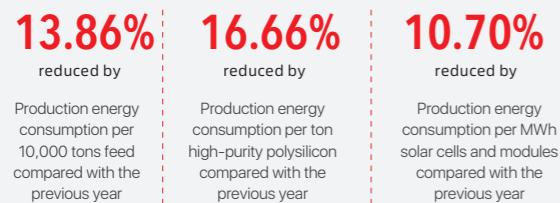
## BUILDING AN ENVIRONMENTALLY-FRIENDLY ENTERPRISE

### Continuously Promoting Green Transformation of the Energy Structure

Tongwei Co., Ltd. strictly complied with relevant laws and regulations, such as the Energy Conservation Law of the People's Republic of China, having referred to the Measures for the Administration of Energy Standardization, and reasonably regulates and controls energy use during the production and operation of its agriculture and PV industries. In 2020, the total energy demand for the Company's production and operation was 2,370,533,596.77 kWh, and the energy consumption per million RMB sales revenue was 53,631.65 kWh.

The Company's agriculture and animal husbandry and PV segments actively carried out energy efficiency benchmarking and energy conservation projects. In 2020, a total of 268 energy conservation and emissions reduction projects were implemented. By implementing multiple projects, such as submerged electrode steam boilers, intelligent manufacturing, "Fishery and PV Integration" PV powerplants, and power supplies generated from new energy and hydropower, the Company made achievements, realizing significant reduction in energy consumption during production and the use of traditional fossil fuel energy.

Agriculture and animal husbandry, PV industry - Production energy consumption per unit main products compared with the previous year:



#### CASE STUDY \ 01

### Increasing the Utilization Efficiency of Hydropower and Clean Energy and Improving the Energy Structure

Sichuan has become an important province for clean energy utilization by virtue of its geographical advantages while Tongwei Co., Ltd. has continued to increase the use of hydropower and other clean energy. On the one hand, Sichuan Yongxiang New Energy Co., Ltd. is supported by the hydropower consumption policy of the local government of Leshan; on the other hand, Sichuan Tongwei green energy power Co., Ltd. supplies electricity for the entire production and operation of branch companies and subsidiaries of Tongwei Co., Ltd. In 2020, Tongwei Co., Ltd. externally purchased electricity adding up to more than 7 billion kWh, with 54.16% of the total electricity consumption in the PV manufacturers of Tongwei Co., Ltd. coming from hydropower. Considering the energy conservation and consumption reductions realized with technological innovations, the

Company effectively avoided negative environmental impacts due to large amounts of pollutants generated from equivalent thermal power generation, thereby greatly reducing carbon emissions. In 2020, Sichuan Tongwei green energy power Co., Ltd. supplied 2,453,539,763.00 kWh of hydroelectricity to its branch companies and subsidiaries, which accounted for 32.11% of the electricity purchased throughout the year.

#### CASE STUDY \ 02

### Introduction of Submerged Electrode Steam Boilers to Effectively Achieve Energy Conservation and Consumption Reductions

Since September 2020, Sichuan Yongxiang New Energy Co., Ltd. significantly reduced steam consumption by the transformation of energy saving technology. It put into use the greener and more environmental immersed electrode boilers, with gas boilers as standby, thus greatly decreasing natural gas consumption. In terms of production, various materials fully achieved a closed-loop recycling, obviously reduced consumption of raw and auxiliary materials and emissions of pollutants and realized the clean and eco-friendly production.



Submerged Electrode Steam Boiler

Internal material closed circulation

Significant decrease in consumption of raw and auxiliary materials

Environmental protection, clean and energy saving production

### Creating a Water Saving Enterprise

Tongwei Co., Ltd. has continuously enhanced the management of water resources. In 2020, the Company's total water consumption was 23,001,728.47 tons, with its water consumption per million RMB operating revenue equal to 520.40 tons. The Company's agriculture and animal husbandry and PV segments iteratively upgraded

water-saving technologies and processes, optimizing the water intake structure by implementing water-saving measures at the source, such as flash steam reuse of condensate, wastewater recycling, and water-saving devices, realizing the protection of water resources and reductions in water resource waste. Among all these efforts, the PV industry realized the most significant achievements, with water consumption during production per ton high-purity polysilicon having been reduced by 23.57% compared with the previous year; while the water consumption during production per MWh solar cells and modules was meanwhile reduced by 5.21% compared with the previous year.

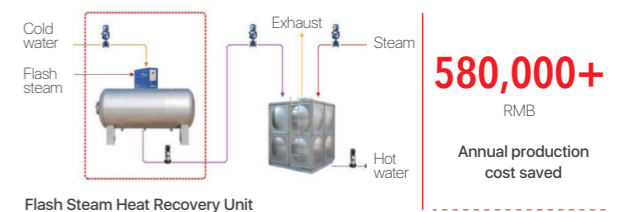
PV industry - Production water consumption per unit main products compared with the previous year:



#### CASE STUDY

### Efficient Utilization of Flash Condensate

The feed plant of Tongwei Co., Ltd.'s agriculture and animal husbandry segment transformed the steam and condensate system, making full use of the waste heat of steam condensate with the flash steam heat recovery unit, reusing cooling water, realizing the comprehensive reuse of heat and condensate, greatly improving the utilization efficiency of resources and energy, while saving an annual production cost of more than RMB580,000. On the other hand, by adjusting the operating frequency of cooling fans, the temperature was monitored in a real-time manner, thus avoiding over-processing and achieving enhanced energy conservation and consumption reductions.



## WATER AND SOIL CONSERVATION FOR THE REALIZATION OF GREEN ECOLOGY

Tongwei Co., Ltd. integrated the philosophy of green governance into its production and operations, adhering to the principle of considering both production and operations and environmental protection, coordinating contemporary and long-term development strategies and boosting the construction of an ecological civilization. Tongwei Co., Ltd. focused on making improvements to the ecological environment, such as the protection of biodiversity, grassland resource conservation, water and soil conservation, wetland protection, the protection and effective utilization of water resources, and has successively deployed PV town projects in many areas of China and even around the world, all with an aim to conserve water and the soil while protecting the ecological environment, generating considerable economic benefits, achieving the coordinated development of economic, social and environmental benefits, and promoting the green and sustainable development of the Company.

#### CASE STUDY

### Promoting Green and Sustainable Development and Protecting Biodiversity

Tongwei's PV powerplants project with agriculture and animal husbandry & PV integration for poverty alleviation is located at Wa'erxi Village, Lianghekou Town, Xide County, in the Liangshan Yi Autonomous Prefecture of Sichuan Province, with a construction scale of 30 MWp that can reach an annual power generation of 4,400,000 kWh, at an altitude of more than 3,000 meters and covering a land area of around 1,400 mu. This PV powerplants project combined PV power generation with agriculture and animal husbandry to carry out sheep raising and planting projects, achieving the coordinated development and developing the local economy while protecting biodiversity.



Tongwei's PV Powerplants with Agriculture and Animal Husbandry & PV Integration for Poverty Alleviation in Xide

## INNOVATING THE GREEN DEVELOPMENT MODEL

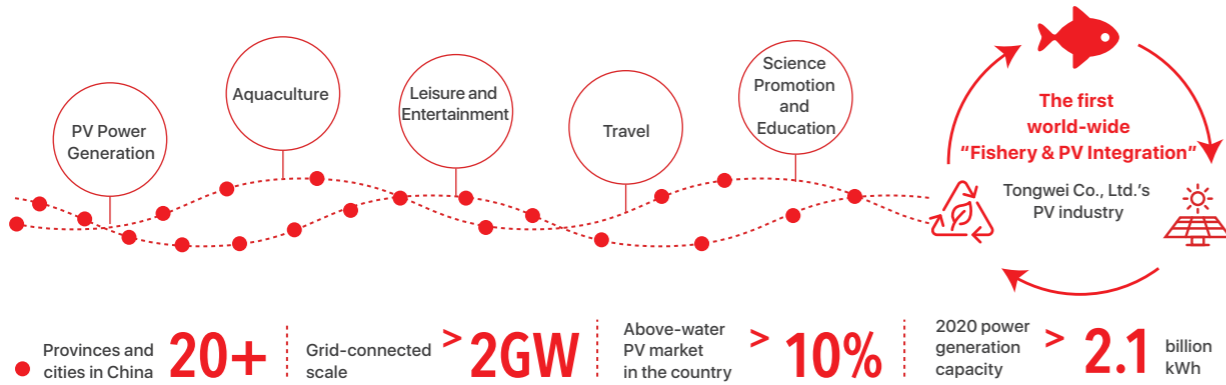
### First "Fishery & PV Integration" PV Power Generation Model

Tongwei Co., Ltd.'s PV industry has successfully created the first world-wide first "Fishery & PV Integration" green innovative model and has constructed "fishery & PV towns" integrated with the functions of PV power generation, aquaculture, leisure and entertainment, travel, and science promotion and education. This model can extend Tongwei Co., Ltd.'s PV industrial chain, boost the development of the tertiary industry in new rural areas, and truly realize the three harvests of "fish, electricity and the environment".

Using the same watered area for aquaculture, Tongwei has constructed MW or GW industrial parks adopting "Fishery & PV Integration" to achieve the production of green energy above the water and high-quality aquatic

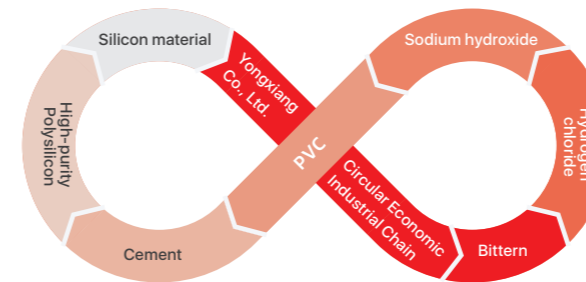
products under the water, generating a final revenue that is far greater than that of aquaculture only, and realizing a maximized output value for fish ponds, maximized PV generation, as well as the optimization of green ecology and visual effects. Further, the application of Huawei's intelligent cloud platform for fishery and PV integration offers a double guarantee for the safety and quality of aquatic products and the sustainable output of above-water PV.

As of the end of the reporting period, "Fishery & PV Integration" PV powerplants were distributed in over 20 provinces and cities of China, reaching a grid-connected scale of more than 2GW. The scale of these bases accounted for more than 10% of the above-water PV market in the country. In 2020, our power generation capacity exceeded 2.1 billion kWh, with high-quality, clean, economical green power having been supplied at a constant rate to countless households.



### Constructing a Circular Economic Industrial Chain for High-purity Crystalline Silicon

The upstream of Tongwei Co., Ltd.'s PV industrial chain (Yongxiang Co., Ltd.) is continuously dedicated to the innovation of its processes and technologies, building up a circular economic industrial chain integrated with new energy and chemicals from "bittern, sodium hydroxide, PVC" to "carbide slag cement" and from "hydrogen chloride, trichlorosilane" to "new energy crystalline silicon" and has achieved its transformation to the "Yongxiang method", adopting the fifth-generation crystalline silicon processes.



Circular Economic Industrial Chain of Yongxiang Co., Ltd.

Tongwei Co., Ltd. has established the Leshan Silicon Material By-product Utilization Engineering Technology Research Centre, and the Sichuan Polysilicon Engineering Technology Research Centre (including the Sichuan Silicon Tetrachloride By-product Recycling Engineering Technology Research Centre), which are responsible for the research, engineered application and recycling of polysilicon by-products. With the use of slurry recycling technology, the silicon tetrachloride in the residual liquid can be fully recovered for comprehensive utilization as solid waste, thus creating an annual recovery value of RMB 80 million. Moreover, new disproportionation liquid-solid reaction processes and devices are equipped for the 100% recovery of hazardous by-products like dichlorosilane, having achieved the circular economic clean production of high-purity polysilicon silicon in a fully closed loop.



### Constructing Intelligent Manufacturing Workshop at Green Factories

Tongwei Solar Co., Ltd., a subsidiary of Tongwei Co., Ltd., is committed to optimizing and upgrading its green supply chain for PV cells, boosting innovation on intelligent manufacturing models, realizing intelligent, efficient and regulated supply chain management, further strengthening information exchange throughout the supply chain, requiring suppliers along the entire industrial chain to save energy and protect the environment, achieving the efficient utilization of resources, minimizing environmental impacts and encouraging green enterprise, optimizing capabilities for industrial innovation, continuously expanding the industrial scale, and building up an innovative PV industrial cluster with distinctive features, advanced processes and technologies as well as intelligent production lines.

The intelligent manufacturing workshop at Tongwei Co., Ltd.'s PV industry has introduced advanced production methods and energy conservation at home and abroad, utilizing highly intelligent production technologies and processes, and incorporating delicacy management on site. After the accumulation and vigorous promotion of technological experience in recent years, our production efficiency has greatly improved, while energy consumption has been significantly reduced and with indicators of pollutant emissions having been much lower than national pollutant emissions standards. At present, the Company has become a benchmark enterprise for green low-carbon development with the fastest construction speed in the industry.



Tongwei Co., Ltd.'s adherence to green development has received a high degree of acknowledgement from the society. In 2019, the PV industry of Tongwei Co., Ltd. won the honor of "Green Factory", awarded by the Ministry of Industry and Information Technology. In May 2020, the Company was awarded with "Green Supply Chain Demonstration Enterprise" and was listed in the Announcement of the Fifth Batch of Green Manufacturing Enterprise, thus being the only enterprise in Sichuan Province selected for the national green supply chain management list for this batch.



Listed in the Announcement of the Fifth Batch of Green Manufacturing Enterprise  
Being the only enterprise in Sichuan Province selected for the national green supply chain management list for this batch  
May 2020

## GREEN OFFICE

The Company has implemented the concept of green low-carbon and environmental economy into its office work, advocating a low-carbon office, reducing the generation of pollutants, recycling office resources, cutting office expenses, achieving energy conservation and reducing carbon emissions. The Company's specific measures include the following:

- 
**Water Use Management**

Turning off faucets by hand and posting warm reminders encouraging water saving in the bathroom in easily visible places; using containers to hold water when washing, and strictly prohibiting the nonstop running of water.
- 
**Electricity Management**

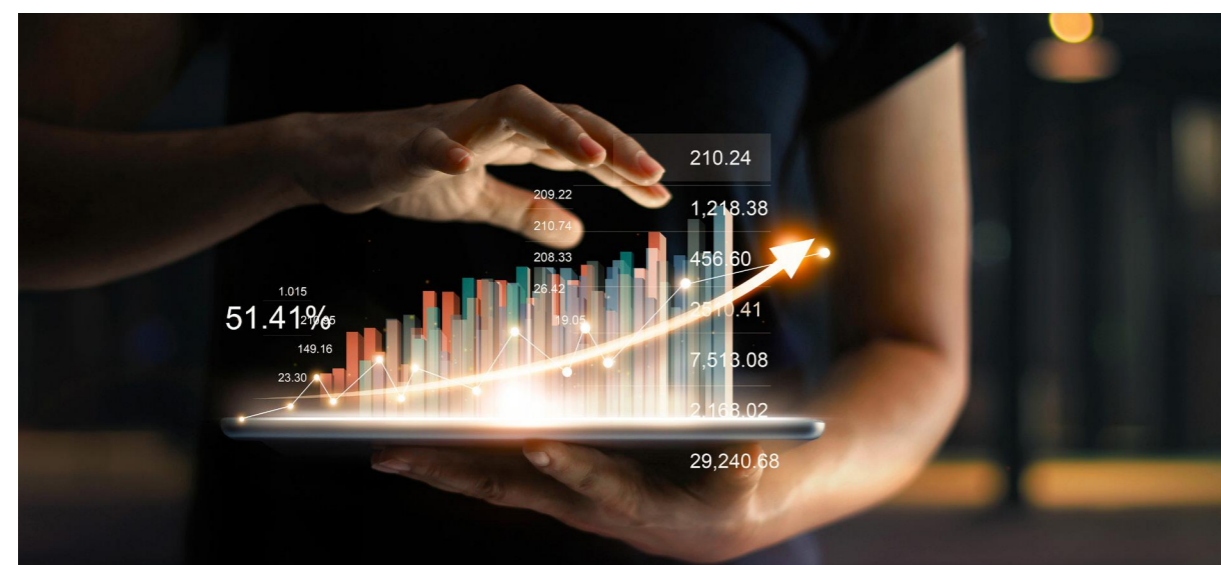
Air conditioners can only be started when the temperature is no lower than 26 °C in the summer and no higher than 14 °C in the winter for any three consecutive days, with the indoor temperature setting for air conditioners being set above 26 °C.
- 
**Office Management**

Advocating for a paperless office and adopting the Fusion Business Cloud (FBC) system for the issuance of official documents and approvals of business processes; when printing documents, try to use duplex printing, recycling and reusing used one-side printing paper; turning off lights in meeting rooms promptly after meetings, and posting reminders at easily visible places in meeting rooms to remind employees to turn off the lights.

## GREEN INVESTMENT AND FINANCING

On January 22, 2020, the Company received a no-objection letter from the Shanghai Stock Exchange for listing and trading, having been approved to issue green corporate bonds valued at RMB 3 billion for a term of no more than 5 years. The approved green corporate bonds were awarded with G-1 rated by the domestic authoritative certification agency CCXI. The Company has intended to use 70% of the funds raised by the bonds for "Fishery & PV Integration" projects. It is estimated that successful operation of these projects would achieve an annual

substitute for fossil fuel energy equivalent to about 767,100 tons of standard coal, an emissions reduction in carbon dioxide of about 2,048,200 tons, an emissions reduction in sulphur dioxide of about 1.99 tons, an emissions reduction in nitrogen oxides of about 1.71 tons and an emissions reduction in soot of about 0.83 tons, setting a good example for the transformation and development of private-ly-owned enterprises, contributing Tongwei Co., Ltd.'s power to achieve carbon neutrality target.



Tongwei Co., Ltd. has insisted on the corporate purpose of "Striving for Excellence, Contributing to Society", establishing bulwarks in its safety management; safeguarding and protecting the legitimate rights and interests of its employees, promoting innovation in its systems and mechanisms of talent development, and enhancing a sense of security, participation and benefits among employees; continuously improving the quality of products and services, working on guaranteeing a basic livelihood and the creation of green energy, enhancing the whole process management of suppliers, and jointly building a responsible supply chain; insisting on the social responsibility guideline of "Being concerned about people's livelihood, never forgetting where their happiness comes from.", giving back to the great kindness of people from all walks of life, actively participating in social and public welfare undertakings; participating in community affairs, sharing in the fruits of development with local communities, and contributing to healthy social development.



## PREVENTING DANGER, EMPHASIZING AND CONSOLIDATING SAFETY

### Safety Management System

Production safety is the basic approach to ensure the steady development of the Company. The Company strictly complied with the requirements of related laws and regulations, having formulated related production safety management systems, such as its *Environment, Health and Safety (EHS) Management Measures, Production Safety Management System, Production Safety Responsibility System, Safety Assessment Standards, Production Safety Responsibility Claims System* and *Production Safety Accident Hazard Check and Control Management System*, as well as safety operation specifications for each production line, clarifying the responsibilities for all jobs and positions, revised and improved these documents annually, making the Company's safety management and assessment standards more suitable.

### Principles of Production Safety:



#### Five-Implement Principle

To implement responsibilities for production safety, the level of safety management, risk classification and prevention, the safety hazard checks, and the improvement of safety levels.



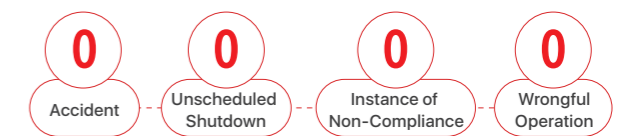
#### Five-strict Principle

To be strict in any situation regardless of identified reasons, identifying those at fault, punishing those at fault, rectifying safety hazards, and educating employees.

### Safety Management Goals and Plans

In accordance with the safety guideline of "production safety, prevention first, comprehensive control", the Company has set forth "four-zero" production safety goals, namely zero accident, zero unscheduled shutdown, zero instance of non-compliance,

and zero wrongful operation. At the beginning of every year, production safety goals and implementation plans were formulated to assign production safety goals to all levels.



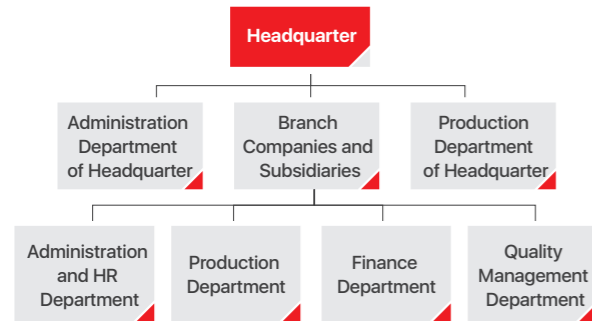
### Implementation of Production Safety Responsibilities at All Levels

- A production safety responsibility system comprising leaders, functional departments and employees has been established with "one position, two responsibilities" at its core. General managers, department managers, workshop directors, foremen and employees sign onto production safety responsibility commitments to implement their responsibilities at all levels;
- An EHS management leading group has been established, with general managers as the primary responsible person for production safety, and who must take full charge of production safety. The President of the agriculture and animal husbandry segment serves as the leader of the leading group, and the Heads of Administration Department and Production Department serve as deputy leaders of the leading group;
- Branch companies and subsidiaries have established a production safety management committee, and their production departments have established production safety management leading groups to clarify the responsibilities of responsible persons at all levels. The Manager of the Production Department serves as the leader of the leading group, with each foreman being the first responsible person for his or her team, and with employees being the first responsible persons for work safety in their respective positions.

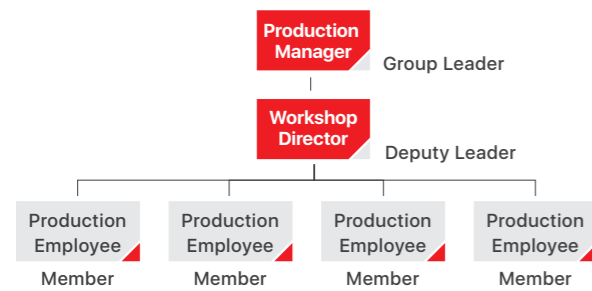
# FULFILLMENT OF SOCIAL RESPONSIBILITY



**Organizational Structure of the EHS Management Leading Group**



**Organizational Structure of the Production Safety Management Group of the Production Department**



**Assessment of Production Safety Management**

Assessments of the production safety responsibility system and special safety meetings of the production safety management leading group are carried out at least once every quarter. Daily monitoring and year-end assessments are conducted for the implementation of production safety goals, including regular meetings for each department/workshop, production safety education, the monitoring of accident hazards and special safety controls, providing inputs into production safety, accident reporting and emergency organization, as well as safety file management, safety hazard rectification rates, etc.

**Production Safety Training**

The level of production safety was improved by offering new employee induction training, safe operation procedures training, safety skills training, safety knowledge and know-how training, training on the use of emergency materials, first aid skills training, occupational health training, environmental protection knowledge training, law and regulation knowledge training, high-risk operation training, and special equipment safety management training.

In 2020, the Company offered 7,274 safety training sessions, representing a total length of 5,317 training hours, and with no major safety-related accidents occurring throughout the year.

**CASE STUDY**

**List Management Consolidating the Production Safety**

Yongxiang Co., Ltd. introduced the international advanced safety management concept early, advocated "safety is the premise of all work", and through the construction of "Amoeba + Team", allowed every team and employee to keep safety in mind and practice safety at work.

A List Management Work Standard was innovatively established in Sichuan. The responsibility list specified what to do, and the work list specified how to do. It gradually transitioned from the safety management list to include lists for all businesses to create a good atmosphere based on the premise that "where there is work, there are standards, and there are lists". This list management approach has become an effective management tool that can guarantee production safety, improve safety management capabilities, and lay a solid foundation for safety management. By applying lists for safety target management, targets can be separated out and executed at each level, being continuously improved and promoted in an orderly manner; by applying lists to daily inspections, no omissions can be ensured with respect to operational compliance; by applying lists to the logistics system, administrative services and external reception can be ensured with no mistakes throughout the year;

Yongxiang Co., Ltd. took the lead in using the list management tool and transformed it as an effective aid for safety management. By establishing dynamic management lists, it could prevent mistakes based on a lack of knowledge, avoid mistakes based on human error, prevent safety accidents, especially major accidents, and create a good atmosphere for "bearing lists in mind, discussing lists and using lists at hand".

The expert team from the Office of the Work Safety Commission under the State Council spoke highly of and acknowledged the achievements of the list management at an inspection tour to Yongxiang Co., Ltd.. Its successful experience of list management attracted the attention of the provincial emergency management authority, and they invited Yongxiang Co., Ltd.'s General Manager Bin Li and related persons to share their experience in this regard.

**Safety Emergency Management**

To prevent and reduce the damages caused by emergency events to both the corporate image and public property and safety, while minimizing any potential such risks to the greatest extent possible, the Company formulated the Emergency Response Plan for Production Safety Accidents, Emergency Response Plan for Environmental Emergency Accidents, Emergency Preparedness and Response Procedures and its Management System of Major Hazardous Sources. It also set up an emergency response team, established a safety

emergency management system for the whole process from risk control at the source, process control to handle results, and implemented strict closed-loop management while effectively improving capabilities to maintain fundamental safety guarantees and comprehensive controls.

Safety Emergency Management Measures	
Risk Control at the Source	<ul style="list-style-type: none"> <li>Give special notice of safety standards, hazard checks, education and training, dust and explosion prevention, flood control, etc.;</li> <li>Introduce JSA (job safety analysis) and HAZOP (hazard and operability analysis) into the Company's risk management, laying a solid foundation for the better prevention of accidents at their source;</li> <li>Launch annual 100-day safety campaigns at each base, including special emergency drills and production safety inspections;</li> <li>Carry out comprehensive and special safety inspections during key seasons in key areas and key companies;</li> <li>Rectify the hazards and deficiencies detected during safety inspection within a set deadline and provide training and education promptly.</li> </ul>
Process Control	<ul style="list-style-type: none"> <li>Key areas must be equipped with production safety facilities and materials as required, which are to be regularly checked and replaced to ensure their effectiveness;</li> <li>Prevent safety risks in the processes of production and operation by installing video surveillance systems and safety warning signs.</li> </ul>
Result Disposal	<ul style="list-style-type: none"> <li>Promptly and accurately disclose event information on events and their impacts in case of any emergency events, and formulate rectification plans.</li> </ul>

**CASE STUDY**

**Tongwei Solar Co., Ltd. Launched the Campaign for Special Emergency Drills and Production Safety Inspections**

In the third quarter of 2020, all bases launched a 100-day safety campaign. In August 2020, the bases in Chengdu, Hefei and Meishan carried out leakage emergency drills for special gas (ammonia) and hazardous chemicals, fire emergency drills, and special training on chemical storage knowledge in summer; In July 2020, bases also conducted monthly safety inspections and special inspections. The Safety and Environment Department of Chengdu Base, together with the Plant Affairs Department, Planning Department and Purchase Department, organized a week-long safety inspection of the hazardous chemical life cycle. By organizing activities, such as operational safety training, emergency drills and safety inspections, the safety and timeliness of each department in dealing with emergencies were improved to ensure that employees could effectively prevent risks, identify hazards, strengthen responsibilities and emphasize implementation plans while providing a solid guarantee for the Company's continued safe development.



**Contractor Safety Management**

In addition to our own safety management, the cooperation and support of contractors is essential to achieve the production safety goals of "zero accident, zero unscheduled shutdown, zero instance of non-compliance, and zero wrongful operation". In 2020, Tongwei Co., Ltd. focused on its source management, process control and assessment management and strengthened the contractor safety management in an all-around manner.



**Contractor Safety Management Measures**

Source Management	<ul style="list-style-type: none"> <li>We have formulated the Contractor Safety Management System and have strictly reviewed contractors' safety production qualifications, construction organization plans, safety management organization, engineering staffing, temporary work permits and vehicle permits for access to factories, etc. The project department has signed a safety agreement with contractors to clarify the safety management responsibilities of both sides.</li> </ul>
Process Control	<ul style="list-style-type: none"> <li>The Safety and Environment Department, together with the project department, supervises and manages the safety of the contractor's work according to the requirements of business management and territorial management; before gaining access to the owner's site for construction tasks, the contractor's staff and workers must receive safety training from the owner's safety and environment department and work section.</li> </ul>
Assessment Management	<ul style="list-style-type: none"> <li>Relevant departments jointly organize regular and overall assessments of contractors' safety performance while considering the situation regarding daily supervision and audit, establishing a [blacklist] of contractors and formulating penalties and incentive measures.</li> </ul>

**CASE STUDY**

**Contractor Safety Management at Inner Mongolia Tongwei High-purity Crystalline Silicon Co., Ltd.**

Inner Mongolia Tongwei High-purity Crystalline Silicon Co., Ltd. realized its contractor safety management by setting up a contractor's safety committee, verifying the validity of special work certificates, completing training before permitting entry into the factory, safety clarification at work sites, visualized management, safety education and communication. In 2020, it provided training for 1,085 persons from 36 units.



## ENHANCING OCCUPATIONAL HEALTH MANAGEMENT

The Company adheres to the occupational health management guideline of "prevention first, combining prevention with control", complies with relevant laws and regulations, such as the Law of the People's Republic of China on the Prevention and Control of Occupational Diseases, and formulates management systems such as its Occupational Health Management System and Environ-

ment, Health and Safety (EHS) Management Measures, establishing an occupational disease prevention and control system with occupational disease monitoring, protection and training, realizing regulated and systematic occupational health management, and further protecting the health of employees and their related rights and interests.

### Measures to Enhance Occupational Health Management

<b>Establish Occupational Health Management Organizations and Assessment Mechanism</b>	<ul style="list-style-type: none"> <li>Establish an occupational health organization and a supervision and assessment mechanism, with each relevant leader specifically responsible for the prevention and control of occupational disease hazards within their respective business areas.</li> </ul>
<b>Detection and Notification of Occupational Hazards</b>	<ul style="list-style-type: none"> <li>Hire qualified third-party organizations to detect hazards in workplaces where occupational hazards exist and take response measures;</li> <li>Inform employees of the different categories of occupational disease hazards, degrees of severity, consequences, emergency response measures, personal protective measures and results of occupational hazard detection by means of announcements, training and assessment.</li> </ul>
<b>Establishment of File Management</b>	<ul style="list-style-type: none"> <li>Establish an occupational health file management system, including employee occupational health information into an occupational health information system for unified management.</li> </ul>
<b>Occupational Disease Examination and Prevention</b>	<ul style="list-style-type: none"> <li>Regularly examine occupational diseases, promptly transferring employees whose medical examinations results cannot meet the job requirements;</li> <li>Equip employees who may be exposed to occupational health hazards with protective work equipment.</li> </ul>

In 2020, the coverage rate for Tongwei Co., Ltd. 's occupational health screening reached 100%. Tongwei Solar (Chengdu) Co., Ltd. obtained the ISO 45001:2018 standard certification.



## PROTECTING LABOR RIGHTS AND INTERESTS AND BUILDING A FOUNDATION FOR TALENTS

Tongwei Co., Ltd. regards talents as the most valuable resource as they are the strongest motivating factor for the growth of an enterprise. To adequately protect the labor rights and interests of its employees and their occupational safety, while providing an extensive platform and stable guarantee for their career development, the Company has established an equal, fair, orderly and friendly human resource guarantee system, and has established a corporate culture of "Cooperation for creating excellence", which is deeply rooted in the development of its team of employees. Furthermore, Tongwei Co., Ltd. has put emphasis on the growth of all employees, actively providing training and education, and encourages employees to make continuous progress and grow together with the Company.

### Protecting Labor Rights and Interests and Opening up Channels of Communication

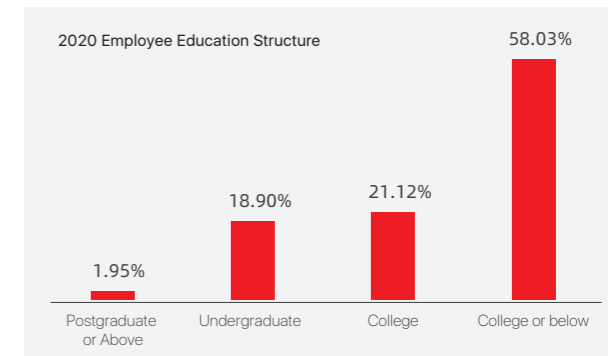
#### Protection of Labor Rights and Interests

Tongwei Co., Ltd. adopts an open, fair and equal employment policy and actively maintains harmonious and stable labor-management relations. Child labor is strictly prohibited, and all forms of forced and compulsory labor are forbidden. Heads of all functional departments check employment status from time to time to ensure lawful employment. In 2020, the Company did not have a single case of child labor or compulsory labor, nor any strikes.

The Company strictly complies with relevant laws and regulations, adhering to the principle of equal employment and equal pay for equal work, prohibiting any form of discrimination, insisting on equal treatment for employees of different nationalities, ethnicities, genders, religious beliefs and cultural backgrounds, adhering to the principles of openness, fairness and impartiality, and actively provides job opportunities for disabled people, ethnic minorities, veterans, etc. We lawfully pay social insurance and housing funds for employees, ensuring reasonable working hours, protecting employees' rights to enjoy rest and vacation, and building harmonious and stable labor relations.

As of the end of the reporting period, the Company has provided 25,549 jobs, of which 6.14% comprised positions for ethnic minority employees, with both the signature rate for labor contracts and the social insurance coverage rate reaching 100%.

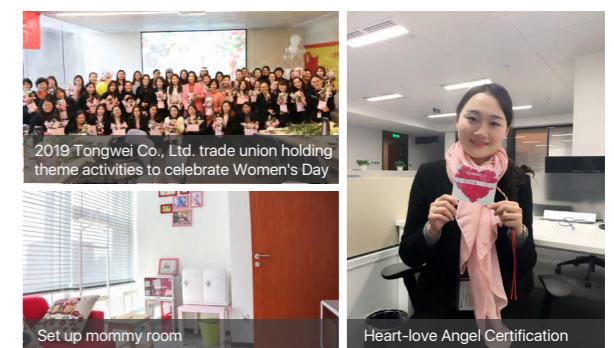
The education structure of employees in service are presented in the picture below:



#### Protection of the Rights and Interests of Women and Other Special Groups

To fulfill the corporate social responsibility and obligation, including protecting the legitimate rights and interests of women and minors, Tongwei Co., Ltd. has formulated the Protection System for Women Workers and Minors. The Company strictly complies with national and local regulations related to pregnancy, maternity and breastfeeding leaves, and adequately protects the legitimate labor rights and physical interests of women during the course of these three periods. Moreover, we have provided added conveniences for breastfeeding women, such as mother and baby rooms in the office building for the private use of employees for breastfeeding and changing; as well as providing refrigerators and microwave ovens for preserving breast milk, while making purified water, boiling water and cleaning tables available for the cleaning and disinfection of items. Furthermore, female staff and workers can enjoy a maternity allowance of RMB500 from the trade union after childbirth.

On Women's Day, the Party Committee and the trade union organized a "March 8 Women's Day" event. The Company's senior managers sent gifts to employees to thank them for their service and organized various activities such as illustration, extension, and movies.



Open Communication Channels

The Company collects employees' feedback and demands through channels such as the trade union, feedback hotlines, and online platforms for conducting regular employee satisfaction surveys. Employees can directly report to HR, their immediate leaders, and even the chairman of the board. In 2020, we continued to strengthen the role of the trade union and HR, listened to the opinions and suggestions of employees, guided and encouraged employees to rationally express their demands, dealt with labor disputes in a timely manner, adopted an open, transparent and fair consultation system, and protected employees' rights to know, express, participate, consult and supervise matters concerning their own interests, such as wages and income, welfare benefits, labor safety and health, and social insurance.

Establishing Tongwei University for Internal Development

Tongwei Co., Ltd. attaches importance to the development and education of talents, adhering to the philosophy that "management depends on employment", and firmly believes that talents are the cornerstone of corporate development and the source of wealth creation. The Company set up Tongwei University<sup>[3]</sup> to support the talents cultivation system for all business segments, branch companies and subsidiaries, realizing the sustainable development of human resources.

Tongwei University Aims to Achieve the Sustainable Development of Human Resources

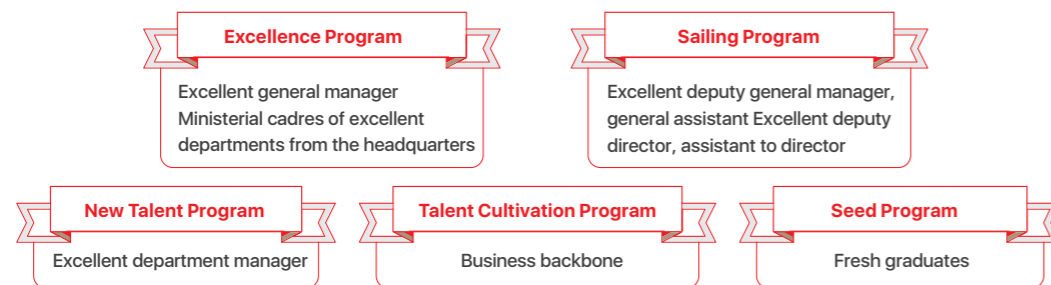
By organically integrating the education system for talents with the

human resources system, the Company established "Tongwei University" in January 2014. Adhering to the philosophy of "cultivating elites and creating talents", Tongwei University is responsible for providing intellectual support for the rapid, sustained and steady development of Tongwei Co., Ltd.. With the School of Management and School of Marketing at its core, and relying on the Company's profound cultural resources, deep industrial influence and management wisdom, Tongwei University promotes the organizational development and personal growth of employees internally and contributes to the realization of Tongwei's human resources strategy.

Tongwei University continuously drives the growth and development of its employees by sharing classical case studies, lectures by industry experts, advanced technologies, and joint industry-university-research programs, to meet the Company's current and future talent needs and support our business development. It aims to address the development needs of employees at different levels, with different specialties and job types.

The School of Management has "five programs" that can precisely cultivate employees in multiple fields, dimensions and periods. The "five programs" include the Seed Program, Talent Cultivation Program, New Talent Program, Sailing Program and Excellence Program, which provide employees at different stages of their career with training that suits their own situation, so employees ranging from fresh graduates to executives can have opportunities and paths for learning and continued progress, in this way ensuring that the Company can achieve the sustainable development of human resources.

FIVE PROGRAMS OF THE SCHOOL OF MANAGEMENT - TONGWEI UNIVERSITY



The School of Marketing has "three training camps", including its value dealer training camp, excellent farmers training camp and business skills training camp, which equip our employees with industry vision, advanced technological and scientific management knowledge, while promoting the internal drive of the marketing team and driving forward industrial and business changes.

"THREE TRAINING CAMPS" OF THE SCHOOL OF MARKETING - TONGWEI UNIVERSITY



[3] Tongwei University was renamed as "Tongwei Study Centre" on May 26, 2021.

CASE STUDY \ 01

No Diligence • No Youth - Sailing Program Training Camp

To innovate the talent cultivation system and perfect the talent echelon, the PV School of Tongwei University organized an online training camp for fresh graduates from the spring class of 2020, which was entitled the "No Diligence • No Youth - Sailing Program" training camp. More than 300 fresh graduates from universities all over the country spent 15 days participating in the training camp. By diversified means of face-to-face courses, qualitative development, book reading and group discussions, students were able to gain a clear understanding of the Company's businesses, including through the modules of Entering Tongwei Co., Ltd., Team Building, Industry Knowledge, Safety Knowledge, Production Knowledge, Supply & Demand Knowledge and Quality Improvement, to achieve a high degree of unity between individual values and the Company development.



Sailing Program Training Camp

CASE STUDY \ 02

New Talent Program for New Thinking in Management

In September 2020, Tongwei University launched the third phase in its sixth New Talent Program, with the theme of "Team Building, Artistic Management". The training was targeted towards excellent department managers and business managers. Through course lectures, group discussions, case studies and three thematic studies on "role awareness, customer orientation and team management", students were able to acquire and internalize their business experience and management thinking. The training courses for the program included "Efficient Team Management", "Goal Achievement-based Process Management", "Standardization in Business Operations" and "Key Factors Affecting Product Quality". The training length was 28 hours, with 39 students completing the full course of learning and result outputs of the program.



Sailing Program Training Camp

Multi-Line and Multi-Level Talent Cultivation

The Company also set up business lines and its branch companies and subsidiaries initiated enrichment plans for the enhancement of capabilities, including new employee orientation training, management capabilities enhancement, professional skills upgrading, comprehensive quality improvements for reserve cadres, corporate culture training, training for career development channel promotion, professional skills identification training, academic training, education upgrade training, MBA education training, and benchmarking learning vision extension, etc. The learning formats adopted centralized training, online platforms, visits and interactions with companies, cooperation with external institutions, etc., which together constitutes a complete training system alongside Tongwei University and facilitates overall improvements to employees' comprehensive quality.

The Company also integrates social resources, establishing long-term talent programs with excellent global companies including Huawei, and has organized high-quality lectures multiple times with the themes of laws and regulations, moral sentiments, corporate culture, family relations, children's education and first aid, as well as providing improved platforms for learning and the enrichment of employees. Moreover, the Company encourages employees to actively improve their work skills and education level, and provides them financial encouragement and support.

CASE STUDY \ 01

Yongxiang Co., Ltd. Providing Multi-Level Training

In 2020, Sichuan Yongxiang New Energy Co., Ltd. provided multi-level training to employees at a total length of 370 hours, including training on legal risks of force majeure, record keeping for bidding and contracts, business registration and financial legal risks, archiving management, promotion and development training, anti-corruption training, training for TTT internal trainers, corporate culture, brand promotion, driver safety training, debate knowledge training, OKR management training, PPT skills training, and terminal debate training.

In the second half of 2020, Yongxiang Co., Ltd. organized a 21-day off-the-job training program with a total length of 310 hours, covering military training extension, corporate culture, rules and regulations, Amoeba management, safety knowledge and a cultural journey.



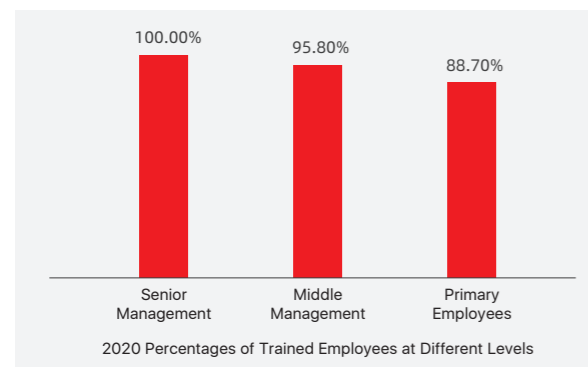
Compulsory Mentoring Course - How to Make IDP

CASE STUDY \ 02

**Systematic Thinking Extension for Agriculture and Animal Husbandry Management**

In August 2020, the Tongwei Agriculture and Animal Husbandry segment hired external experts to provide face-to-face training for systemic thinking extension for the management team, revealing and analysing cases from leading enterprises in different industries in which their teams were able to quickly break through bottlenecks to achieve significant revenue growth, having meanwhile explained effective paths specifically on the establishment of product lines, increasing gross profits per capita, building an increment-based organizational performance management system, and realizing the autonomous learning of employees, further inspiring the systemic thinking of leaders on the functional lines of business management applications based on the sharing of practical cases and through field interaction.

In 2020, the Company invested RMB 13.74 million in professional training. Tongwei University, business lines, branch companies and subsidiaries provided 1,994,909 hours of training for 23,351 trainees. See the picture below for the percentages of trained employees by rankings:




**Opening Career Development Channels and Driving Organization Vitality**

Tongwei has created a "three-channel" training model for talent development, including its "management channel", "professional channel" and "technician channel", which fully cover knowledge-oriented employees and those with operational skills. Our employees can choose suitable career development channels according to their actual situation, as well as developing across different channels after their individual capabilities and work quality have been improved. Under the general guideline of "incentivizing excellent employees and considering internal fairness", according to actual strategic needs at different stages of development, the Company will assess the situation meticulously and be guided to achieve such goals based its salary policy.

In 2020, the Company promulgated several incentive policies and stimulated employees to work towards more ambitious goals. Through the timely fulfillment of rewards and punishments, the Company established a fairer and more efficient salary management mechanism, realizing its aims to activate the organization, motivating employees and consolidating the corporate culture of "comparing, learning, catching-up, helping and surpassing". Moreover, to effectively attract outstanding talents in the industry, the Company adopted an appropriate strategy for increasing the salaries of core technology and high potential talents, ensuring the reasonable competitiveness of salaries and further solidifying the Company's advantage in competing for talents.

**Concern for Employees and Enhancing Their Happiness**

Tongwei Co., Ltd. has always regarded the needs of talents as its own responsibility and the needs of employees as its own needs, and is friendly to employees, actively helping employees and providing them with benefits. We pay the five social insurances and one housing fund for employees in accordance with the Labor Law, set up an "Employee Care Mutual Fund", and provide multilayered welfare, such as festival gifts, care money, family visit benefit, annual health examinations and employee meal allowances;

- 
**Employee Care Mutual Fund**  
 The fund is mainly used to cover medical expenses for employees and their families, expenses related to serious natural disasters, scholarship fees for employees' children upon college entrance, and expenses for employees' marriage and childbirth;
- 
**Employee Dinners and Festival Gifts**  
 On official holidays, such as Spring Festival, Women's Day, Children's Day, Mid-Autumn Festival, Lantern Festival, Labor Day, Dragon Boat Festival, National Day, New Year's Day and important dates such as the Company's anniversaries, the Company organizes employee dinners and presents gifts according to the production and operating situation, with the remaining funds of the trade union;
- 
**Care Money**  
 We care about employees facing special circumstances, such as providing them with care money, birthday gifts, wedding gifts, childbirth gifts, retirement gifts, hardship gifts, injury and illness gifts, etc.;
- 
**Employee Welfare Cafeteria and Meal Allowance**  
 Providing employee welfare cafeteria with high-quality meals and cool drinks and meal allowance to ensure employees' right of choice on their own diet;
- 
**Other Benefits**  
 Family visit benefits, loyalty bonuses and mutual care funds to show our consideration for employees;
- 
**Annual Health Examination**  
 Providing annual health examination to employees free of charge to guarantee their health, achieving 100% coverage rate of occupational health examination.

CASE STUDY \ 01

**"Tongwei • Dream • Home" Family Happiness Day**

In November 2020, Tongwei Solar Co., Ltd. held the fifth "Tongwei • Dream • Home" Family Happiness Day event. Over three hundred people from Hefei, Chengdu and Meishan gathered in Sichuan, including outstanding employees, executives and their family members. They visited the A1 Intelligent Manufacturing Experience Centre at the Meishan Base of Tongwei Solar Co., Ltd. in matching

parent-child outfits, having appreciated the beauty of intelligent manufacturing, experiencing the positive and vigorous spirit of struggle and thus gained a deeper understanding and greater support for the importance and value of their family members' work. In addition, Tongwei Co., Ltd. family members were guided to experience the beautiful scenery and cultural heritage of Leshan, a tourist destination, while cultivating their body and mind and gathering renewed strength.



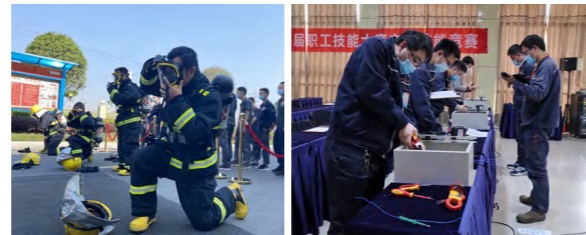
01. Family members visiting Intelligent Manufacturing Experience Centre on the 5th Family Fun Day of Tongwei Solar (Meishan) Co., Ltd. | 02. Visit Leshan Giant Buddha | 03. Group photo at Chengdu base | 04. Watch the local special programs of Mount Emei

CASE STUDY \ 02

**Employee Skills Competition -The Most Beautiful Craftsman Skills Showcase**

From April to May 2020, Tongwei Solar Co., Ltd. successfully held the first employee skills competition in Hefei and Chengdu with the theme of "Skill Competition, Wisdom Competition", as well as the selection of the most beautiful craftsman. More than 210 participants registered for the competition and competed for the first prize in firefighting, electrician work, forklift driving, slurry barrel scraping and solar cell inspection skills, with winners receiving the "The Third Most Beautiful Craftsman Honor of Tongwei Solar Co., Ltd.". This

competition aimed to promote the diligent practice and execution of business skills and create a good work atmosphere.



Scenes from Employee Skills Competition

CASE STUDY \ 03

**Birthday Parties for Employees**

The Company is committed to becoming a warm family, and strives to create harmonious work atmosphere. Tongwei Solar Co., Ltd.'s bases in Hefei, Chengdu and Meishan hold birthday parties for employees every quarter. The trade unions specially invite external trainers to provide guidance and hold colourful activities including pottery handicraft, DIY baking, DIY handmade

leather product, DIY greenery micro landscaping, and interactive games. Under the guidance of professional trainers, employees celebrating birthdays show their imagination and creativity and enjoy birthday cakes made with their own hands. During birthday parties, every employee can feel love and a deep sense of belonging from the Tongwei Co., Ltd. family.



05. Employee team building photos at birthday party | 06. Handcraft activity  
07. Tongwei Solar (Chengdu) Co., Ltd. holding birthday theme baking activity for employees in the third quarter

**Assistance Program for The Disabled**

In terms of care and assistance for the disabled, the Company has assumed responsibility for securing job placement for the disabled to a certain extent and has employed 68 employees with disabilities. By training these employees, adopting a flexible mode of management and regularly visiting up on employees with disabilities whose families often suffer hardships, the Company has enhanced the sense of belonging among employees and strengthened care for the disabled.



Representatives of the Company Visiting Families of the Disabled



## FOCUSING ON CUSTOMERS AND PURSUING QUALITY

### High-Quality Development Driven by a Strategy of Standardization

Quality, market and efficiency are the eternal themes of corporate development, and the qualitative guideline that Tongwei Co., Ltd. has pursued eternally. As a world leading enterprise in green agriculture and green energy, Tongwei has always regarded quality to be the lifeline of the Company, regulating the awareness and behaviour of all employees with the goal of maximizing product benefits, and strictly controlling the whole process of design, manufacturing and use that forms product quality at the professional, standardized and large-scale level. Furthermore, "quality" is used to force management changes in technology, raw materials, production and marketing, continuous improvements in the quality management system, creating an irreplaceable industrial chain with high-scale efficiency and sustainable value creation, providing safe and stable products for society and achieving win-win development for the Company and its customers.

#### Agriculture and Animal Husbandry

The agriculture and animal husbandry segment has built a strong line of defence to guarantee the quality and safety of its agricultural products by establishing quality management throughout the whole process, implementing quality guidelines in multiple ways, and reproducing the traceability of food throughout the entire process to provide strong support for quality and safety.

#### Establish Quality Management throughout the Whole Process:

The Specification for Feed Quality and Safety Management is strictly implemented for all procedures and throughout the whole process of feed material purchase, production processes, the storage and transportation of finished products; The Quality Control Department is responsible for the online supervision about the process quality control, quality indicators, package weight, etc. The sample of added batch was retained for tracing a variety of performance indicators for finished product quality or the quality of raw materials. The Quality Control Department also established procedures for quality control based on formulation, raw materials, production processes, inspection and testing, and defective products, and also for prevention, error correction, crisis management and product withdrawal in the case of product quality risks.

**Implement Quality Guidelines in Multiple Ways:** In 2020, the Company enhanced the quality guidelines and objectives in its agriculture and animal husbandry segment, implementing quality guidelines in multiple ways, strictly controlling the whole process of design, manufacturing and use that forms product quality at the professional, standardized and large-scale level, maximizing the benefits of aquaculture, and driving the transformation of

aquaculture in China. For example, the word-of-mouth evaluation of customers was used as marketing evaluation indicators; the drive model of "technology + market" was adopted; the functional departments of the headquarters led efforts to set up an aquaculture research project team to deeply explore the excellent aquaculture model adopted in each area.

#### Reproduce Traceability of Food Throughout the Manufacturing Process:

The aquatic and livestock food processing bases in Sichuan and Hainan strictly comply with the requirements of the HACCP quality management system to process and produce, realizing quality monitoring and traceability "from source to table", and effectively enhancing the value and competitiveness of the industrial chain.

### CASE STUDY

#### Quality Management Achievements of the Feed Segment

The Company has adopted and implemented ISO9001 and ISO22000 systems, complying with the laws and regulations of China, and strictly controlling product quality. In the feed segment, branch companies and subsidiaries in Xiamen, Wuhan and Huai'an passed third-party audits and obtained the ISO9001 quality management system certification and ISO22000 food safety management system certification. In 2020, Tongwei Co., Ltd. won the honors of "Socially Responsible Enterprise" at the 18th China Food Safety Conference, "Food Safety Credibility Unit of 2019~2020", and ranked top 10 of the "Top 100 Agricultural Product Processing Enterprises of 2019" as granted by the China Association of Agricultural Leading Enterprises. In 2020, the product conformity rate in the feed segment was 100%, the customer satisfaction rate was 94%, the customer complaint response rate was 100%, and no product recall occurred.

### PV Industry

Adhering to the principle of quality first and boosting cost reductions and increased efficiency, the new energy segment has transformed its regulated, standardized and delicacy management into internal cohesion and external competitiveness, continuously improving the comprehensive quality management system, and has formulated various product quality control procedures, such as its Product Production Process Control Procedures, Incoming Inspection and Test Control Procedures, Non-conforming Product Control Procedures and Finished Product Delivery Inspection Control Procedures, having enhanced product process control and risk control and guaranteeing product quality.

### CASE STUDY

#### Quality Management Achievements of the New Energy Segment

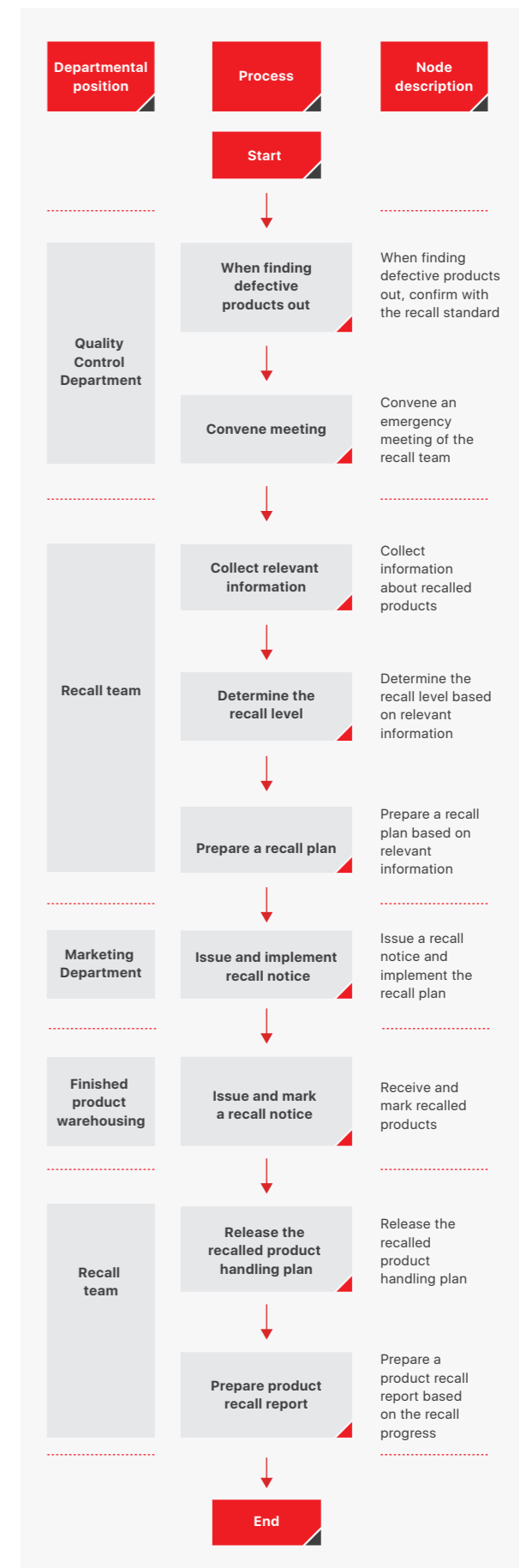
The purity of the high-purity Polysilicon produced by the Company can reach higher than 99.99999999%, and the key indicators for solar cells, such as conversion efficiency, yield rate, fragmentation rate and CTM value, are all the top in the industry. Tongwei Solar Co., Ltd. has obtained the "three-standard" (quality, environment, occupational health and safety) management system certification issued by CQC and TUV, European CE, North American CSA, TUV South Germany and other certifications. It has won "Excellent Quality Supplier" awarded by Jinko Solar Co., Ltd., "Best Quality Supplier" awarded by GCL System Integration Technology Co., Ltd., "Excellent Supplier" and "Product Quality Inspection-Exempt Supplier" awarded by Canadian Solar Inc., "Excellent Supplier" awarded by Trina Solar Co., Ltd. and "Excellent Supplier" awarded by Suntech Power Co., Ltd..

### Improving Service Quality and Protecting Customers Rights and Interests

#### Perfecting the Customer Service System

To ensure the stability of product quality, protect the rights and interests of customers, improve customer satisfaction, and continuously provide high-quality services to farmers and consumers, the Company has formulated its Product Return (Replacement) Management System, Product Recall System, Product Quality and Safety Crisis Handling System, Customer Satisfaction Measurement Management System and Customer Complaint Handling System to determine the powers of each department and regulate the workflow of product returns and replacement, product recalls and customer complaint handling. The Company has broadened its online and offline channels to listen to customers' opinions and feedback, set up a nationwide 400 service hotline to receive customer inquiries, complaints and other matters, while promptly completing registration and providing forwarding, reminders, feedback and replies, having clarified the responsible departments for different types of complaints.

The Company has established a recall team. The Quality Control Department is responsible for the inspection and verification of recalled products and convenes team meetings accordingly. The recall team has formulated the Product Recall Plan according to collected information, and engages in further tracing, evaluating and testing for product recalls due to material defects. The specific product recall procedures are illustrated as follows:



CASE STUDY

Tongwei Cloud Live for Targeted Services to Farmers

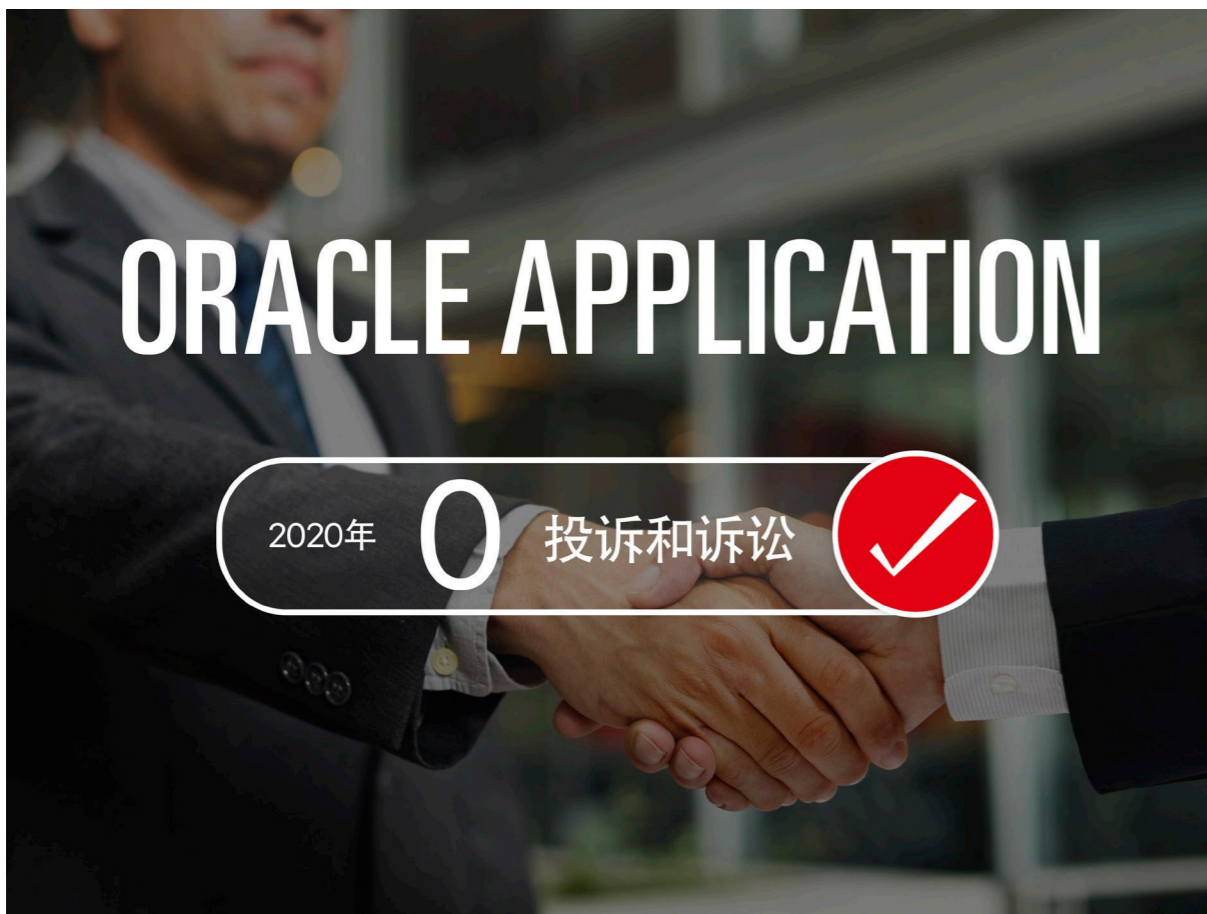
With an aim to creating an Internet ecosystem for the aquatic industry, Tongwei Co., Ltd. built an online community and live streaming room, gathering farmers, experts, scholars and peers, popularizing aquaculture knowledge, and publicizing the latest information on aquaculture technology, market conditions and industry dynamics. In March 2020, in response to the COVID-19 pandemic, and to expand the provided service, experts from the industry were invited to give lectures and interact online by live streaming, aiming to solve the problems farmers encountered in the aquaculture process. In 2020, 32 live broadcasts were given, with a total of 7.49 million viewers.



Tongwei Cloud Live

Protection of Customer Privacy

To protect customers' information safety and privacy, the Company uses Oracle Application as the basis for its data storage and management architecture, as well as building a customer database management system, which constitutes a digital nervous system based on big data with the help of advanced technological platforms, realizing unified data management and enhancing the security of data usage. The Company regularly enhances the confidentiality awareness of its sales staff, and prohibits prohibited the leakage of customer information. In 2020, no complaints or lawsuits arising from customer privacy breaches occurred.



CREATING RESPONSIBLE SUPPLIERS WITH WIN-WIN COOPERATION

Tongwei Co., Ltd. continuously strengthens its supplier management, cooperating closely with peer companies and suppliers, promoting the exchange of advanced technologies and management concepts, and has built an open, fair, transparent and responsible supply chain.

Supplier Management

The Company constantly perfects its supplier management system. The agriculture and animal husbandry segment has formulated the Management Measures for Suppliers of Raw Materials to carry out supplier development, including evaluation and re-evaluation, rating, strategic supplier management, blacklist and elimination identification and management, and supplier archive management for bulk raw material suppliers. The Company conducts site inspection based on indicators such as supplier qualification status, management capabilities, production strength, quality control strength, capital analysis, sales capabilities and credibility. We also signed up to non-corruption commitment and quality commitment provisions with suppliers and established internal reporting mechanisms through telephone and email.

The new energy segment has formulated the Supplier Management Control Procedures to regulate the full lifecycle management of suppliers, which provides for the selection of new suppliers, potential supplier management, qualified supplier management, supplier site audits, supplier evaluation and supervision. Carried out the regular evaluation of qualified suppliers with respect to product conformity rates, customer complaints, return rates, product performance, delivery times, service quality, product control standards, etc.; Moreover, the Company carried out site audits of suppliers with regards to hazardous chemicals and issued EHS audit reports.

Advocating for Green Suppliers

By creating an SRM information-based purchasing platform, implementing green supplier management, and strengthening supply chain information communication and sharing, the Company requires that all suppliers in the industrial chain should save energy resources, protect the environment, and promote the coordinated development of economic, environmental and social benefits in the PV industry.

CASE STUDY \ 01

Helping Suppliers, Building Sustainable Strategic Partners

Yongxiang Co., Ltd. has promoted and assisted supplier Company A in the areas of the standardization of safety production, equipment management standardization, office management and other aspects of comprehensive upgrading needing improvement to ensure it to become a sustainable strategic partner for Tongwei Co., Ltd.. In 2020, Yongxiang's resin management support team sent leaders from the quality control department, equipment department, safety and environmental department, and Administration & HR department to Company A to carry out guidance and support work. Through this helpful exercise, Company A has achieved a stable and high level of production, reduced electricity consumption, delicacy management, improved market competitiveness and a sustained release of internal potential, while Yongxiang Co., Ltd. has meanwhile reduced raw material consumption and has achieved the safe supply of raw materials, promoting a win-win cooperation.

CASE STUDY \ 02

Supplier Training on the SRM System

Yongxiang Co., Ltd. and Tongwei Solar Co., Ltd. have established their own "Supplier Relationship Management System (SRM)". The purchaser would screen and view platform suppliers, and issue invitations and questionnaires to suppliers who meet the conditions for cooperation. To ensure the successful launch of the system, the Purchase Department at Tongwei Solar Co., Ltd. organized three special training sessions in Hefei and Chengdu, inviting the SRM project team to provide detailed training on the operation of the whole business process and demonstrate the actual operation of functional modules to 106 suppliers, having set up WeChat groups to facilitate prompt communication and the answering of any questions.



## ACTIVELY PARTICIPATING IN PV POVERTY ALLEVIATION AND MAKING CONTRIBUTIONS TO FIGHTING AGAINST POVERTY

PV poverty alleviation is an efficient model of targeted poverty alleviation that integrates green poverty alleviation, thoroughgoing poverty alleviation and industrial poverty alleviation. While protecting the ecological environment, it effectively promote a stable increase in per capita income for the people living in poverty-stricken areas, thus being one of the most effective ways to achieve poverty alleviation, shifting from "help-the-poor" to "thoroughgoing" poverty alleviation. In 2016, the National Energy Administration and National Development and Reform Commission promulgated the Opinions on the Implementation of PV Power Generation to Alleviate Poverty and Management Measures of PV Powerplants for Poverty Alleviation, which made proposals for the healthy development of the PV industry aimed at poverty alleviation and called on enterprises to put the PV poverty alleviation model into practice.

Tongwei Co., Ltd. has continued to explore the PV poverty alleviation model,

having constructed several PV powerplants for poverty alleviation in Aohanqi, Inner Mongolia and Xide, Sichuan. This model not only effectively transforms the extreme lack of electricity in local production and life, but also provides a monthly income and regular economic resources to poor households. It can help solve the problem of economic development for the next 10 years, 20 years or even for a longer period, and follow a new road of industrial poverty alleviation, ecological development for poverty alleviation, and the construction of clean energy resources for poverty alleviation. Hence, Tongwei has carried out important exploratory work and has made a positive contribution to China's PV poverty alleviation, all with the hope that poverty-stricken groups may shake off their poverty to become rich and prosperous. We have provided a complete "Tongwei example" for poverty alleviation in China. During the reporting period, the Company invested RMB 9,586,300 in poverty alleviation efforts.



### CASE STUDY \ 01

#### Poverty Alleviation Powerplants Project in Aohanqi, Inner Mongolia

The Xinhua New Energy 100MWp PV Poverty Alleviation Project is located on the north side of Wanbaixian Road, in Dongwanzi Village, Moutouyingzi Township, Aohanqi, Chifeng City, Inner Mongolia, covering a total land area of about 3,500mu, with a total construction scale of 100MWp. The Project has adopted modules with the highest conversion efficiency and the most advanced string inverters in China. After operations, the project has increased the income of each of the 4,133 poor households in Aohanqi by RMB3,000 annually, who will continue to benefit from the project for 20 years. Therefore, the project can make a positive contribution towards the goal of targeted poverty alleviation for the Aohanqi.

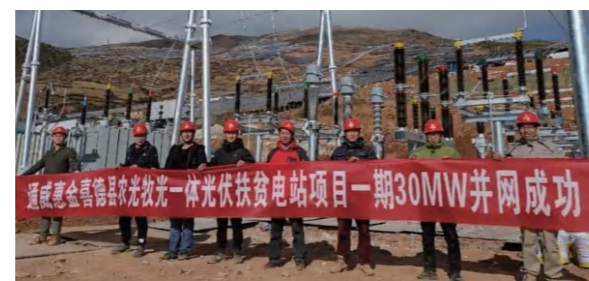


Cornerstone Laying by Leaders and Guests

### CASE STUDY \ 02

#### Tongwei Xide Agriculture/Animal Husbandry & PV Integration Poverty Alleviation Powerplants

At Wa'erni Village, Lianghekou Town, Xide County, Liangshan Yi Autonomous Prefecture, Sichuan Province, Tongwei Co., Ltd. constructed a PV powerplants project with an installed capacity of 30MW and adopted agriculture and animal husbandry & PV integration for poverty alleviation. The project covers a total land area of around 1,400mu, and with an annual power generation capacity of 44 million kWh, achieving the goal of poverty alleviation for 3,600 recorded poor households in Xide County without labor force. The project not only promotes the development of a local green new energy industry, but also further drives local industrial development, improving the ecological environment, helping people shake off poverty and achieving common prosperity.



Successful Grid Connection for the Tongwei Agriculture/Animal Husbandry & PV Integration Poverty Alleviation Powerplants Project in Xide County, Sichuan

## NEVER FORGET WHERE WE STARTED, CONTRIBUTING TO THE SOCIETY

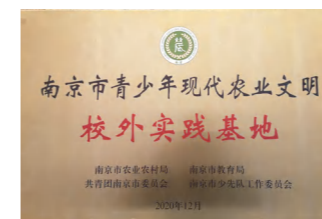
Ever since its establishment, Tongwei Co., Ltd. always regarded social welfare as its responsibility, insisting on the corporate purpose of "Striving for Excellence, Contributing to Society", while never forgetting where we started, contributing to society, giving back to society with love, actively participating in public welfare undertakings for the construction of education and science popularization bases, providing community donations and education donations, assuming social responsibility and becoming a pioneer in the industry.

### CASE STUDY \ 01

#### Building an Agricultural Science Popularization Base to Improve Scientific Literacy of Young People

Tongwei (Jiangsu) Fine Fishery Park was the first "Fishery & PV Integration" industrial park for Tongwei Co., Ltd. integrating new energy, new fishery and new rural areas. It serves the functions of leisure fishing, science popularization education and water entertainment, and covers a land area of about 40,000m<sup>2</sup>. The industrial park is a science popularization education base designated by the Nanjing Municipal Government as an off-campus

practice base for modern agricultural civilization. The "agriculture + PV" model allows agriculture to be a part of the campus and lets youth get closer to nature, understand agriculture, while learning and living on site, thus providing an opportunity to promote the integration of agriculture and education, facilitate the healthy development of young people, and improve the level of development and comprehensive competitiveness of leisure agriculture in Nanjing. In 2020, the industrial park twice welcomed study tours from university students, with about 120 students in all.



Nanjing Youth Modern Agricultural Civilization Off-Campus Practice Base



Study Tour of Nanjing Normal University



Nanjing Longpao Project Scene

### CASE STUDY \ 02

#### Borderless Love to Boost Infrastructure Construction in Bangladesh

As of the end of the reporting period, Tongwei Co., Ltd. had established 7 overseas subsidiaries to provide customers with high-quality feed and improvements to local aquaculture and create jobs for local people. In 2020, seven overseas subsidiaries of Tongwei directly provided more than 1,200 jobs in three Southeast Asian countries, 95% of which recruited local employees.

In recent years, Tongwei's overseas subsidiaries have been actively involved in constructing of local communities and giving back to overseas communities. In 2020, Tongwei Bangladesh Co., Ltd. donated more than RMB1.66 million to build a high-standard road for Maura Village, which is

1km long and 5m wide. This project improved the traffic infrastructure of the community and the living conditions of residents.



Boosting the Traffic Infrastructure Construction of Bangladesh

### CASE STUDY \ 03

#### Education Donation to Facilitate Research on Energy Transformation and Social Development at Tsinghua University

In April 2020, Tongwei Co., Ltd. donated RMB 2 million to the Tsinghua University Education Foundation to jointly establishing the Centre for Energy Transformation and Social Development Research together with

the School of Social Sciences, Tsinghua University, facilitating the centre to conduct research on policies, technological innovation, business models and society related to energy transformation and social development, launching the initiative of 1KW PV per capita, and promoting energy transformation and social development in China and the world.

## INTEGRATION OF THREE INDUSTRIES, FACILITATING RURAL REVITALIZATION

By virtue of its considerable experience in project development and construction, Tongwei Co., Ltd. has vigorously advanced the development of the new energy industry based on the "Fishery & PV Integration Industrial Park", striving to build a "Fishery & PV Town", following the rural revitalization strategy and contributing to the integration of three industries.

### CASE STUDY

#### Tongwei's Fishery & PV Integration Ecological Park Project at Dongying

Tongwei Co., Ltd. invested in and constructed the "Tongwei's Fishery & PV Integration Ecological Park Project at Dongying", which integrated PV power generation with aquaculture, having adopted the modern facility aquaculture model with environmental protection, intelligent management and information technology, sustainably producing environmentally friendly clean energy above water and high-quality and safe aquatic products underwater, while moderately developing the leisure tourism industry, and building a modern agricultural demonstration park with intelligent aquaculture, clean energy, leisure and sightseeing venues. The project was among the first batch of PV parity projects approved by the National Energy Administration in 2019, and also served as a demonstration project for building a green energy island. It can annually save 80,000 tons of standard coal and reduce 180,000 tons of carbon dioxide emissions.

Besides its land value appreciation, the project can generate a fivefold source of income for the locality, including PV power generation,

aquaculture, rentals, property management, and carbon trading or green certificates, increasing incomes for rural areas and farmers, and realizing the great dream of rural revitalization by recruiting and training farming workers and service staff for the three industries in surrounding areas and facilitating employment and tourism. In the future, the project will be considered a production base for "Tongwei Fish" brand., with the green and safe aquatic products produced by the fishery and PV integration industrial park being sold across the country through the sales channel initiated by "Tongwei Fish" brand., in this way yielding great benefits.



<sup>4</sup> "Tongwei Fish" is the abbreviated company name for Tongwei Fish Co., Ltd..

## JOINTLY CONQUERING THE EPIDEMIC WITH GROUP PREVENTION AND CONTROL

In response to the worldwide impacts from COVID-19 in 2020, Tongwei Co., Ltd. insisted on maintaining the prevention and control of the epidemic and the stabilization of production and supply, sparing no efforts to realize the safe and effective supply of people's basic living needs and agricultural products, achieving a smooth circulation in the purchase of feed materials, sales of feed products and the purchase of seedlings, so as to provide an important material guarantee for the prompt resumption of terminal aquaculture after conquering the epidemic.

### Epidemic Prevention and Control

When epidemic prevention and control reached the most critical stage, Tongwei Co., Ltd. issued emergency documents to strengthen protection against the virus and work guidelines to maintain safe production, following up and reporting on the implementation of epidemic prevention and control measures at each company during the Spring Festival. The following measures were taken during that time:

#### Establishing a Joint Prevention and Control Mechanism

Tongwei Co., Ltd.'s branch companies and subsidiaries in Hubei adhered to the notion of "overall deployment", establishing a joint prevention and control mechanism, keeping abreast of the latest information and epidemic monitoring data on all employees, coordinated and solved existing difficulties within the shortest timeframe possible. The Company launched a joint prevention and control emergency plan, referred to measures of branch companies and subsidiaries in Hubei, and formed a daily reporting mechanism for epidemic prevention and control.



#### Purchasing of Epidemic Prevention Materials

Each region and company purchased epidemic prevention materials, such as thermal imaging thermometry systems, infrared thermometers, mercury thermometers, 84 disinfectants, 3M face masks, medical-grade surgical masks, anhydrous ethanol, medical alcohol, no-rinse disinfectants (medical), nebulizers, etc., with special welfare packages given to all employees during the epidemic.

#### Strengthening Publicity and Learning on Epidemic Prevention

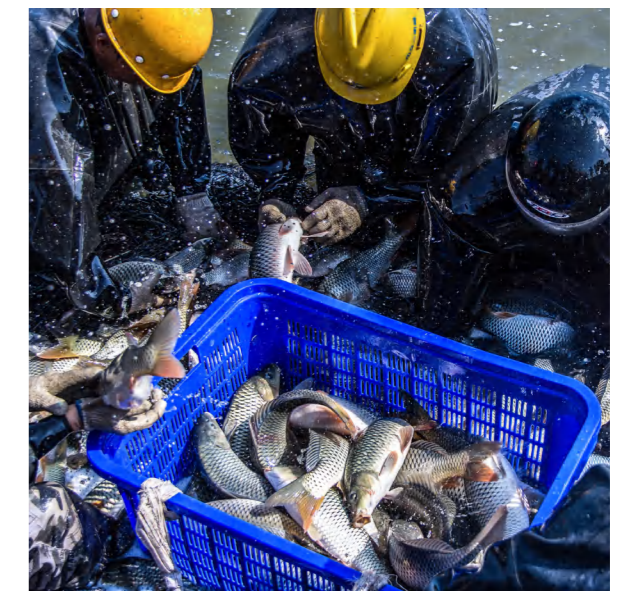
The CPC Committee Office of Tongwei Co., Ltd. released its Party Member Initiative within the shortest possible time, calling on all Party members and cadres to study and implement the spirit of the important instructions of General Secretary Xi Jinping on epidemic prevention

and control, relying on online platforms, releasing publicity materials and enhancing online learning. The Company distributed a terminal epidemic prevention manual to employees, fully tracked and investigated the health conditions of employees, and sent a letter to customers to remind them of safety control requirements.



#### Guaranteeing Feed Supply in Hubei

During the epidemic, it became difficult to sell agricultural products from Hubei, especially fresh and live products, and breeding terminals were faced with the dilemma of feed shortage. Tongwei Co., Ltd. secured supplies to feed companies located in Hubei, thus guaranteeing the upstream and downstream supply of meat, poultry, eggs and aquatic products.





## Resumption of Production to Secure Supply

Tongwei Co., Ltd. has over 70 feed branch companies and subsidiaries in China, which cover the major aquatic, livestock breeding regions and are closely linked to breeding management, production guarantees and food supplies in each region. To make every effort to stabilize production, guarantee supply and resume full production as soon as possible, the Company took the following measures:

### Establishing a Three-level Command System for Epidemic Prevention

Tongwei Co., Ltd., including regions, branch companies and subsidiaries, set up COVID-19 epidemic prevention commands. The commands at each level took various prevention and control measures, fully coordinated the emergency response efforts and prepared for the resumption of production and operations.

### Formulating Work Specifications for Factory Management

We formulated work specifications for prevention and control, marketing and public opinion control, having built a point inspection

system tool for epidemic prevention and control measures, and kept track of all the related point inspection information, including feedback on employee arrival times, personnel and vehicle access management, environmental hygiene management, epidemic prevention materials, resumption of work and production, etc.

### Changing Work Scenes and Serving More Users

To provide prompt service to breeding terminals, our marketing staff at the front line transformed their marketing mode from contact marketing to contactless marketing, from word-of-mouth marketing to Internet marketing, and from relationship marketing to value marketing. Work scenes changed from dealers' stores and fish ponds to telemarketing, WeChat promotion and network services. We selected platforms for user communication, established community groups for breeding services, released fish price quotations, key technical information for aquaculture and disease consultation in a real-time manner, and met breeding demands effectively within community groups.



## Care and Support

During the epidemic, Tongwei Co., Ltd. guaranteed its own effective prevention and control and achieved the resumption of work and production. However, we never forgot the care and support of medical staff who were fighting against the epidemic. Tongwei carried out the "Angel Nutrition Care Program" to ensure the nutritional health of medical staff, and helped domestic and foreign partners to overcome difficulties and achieve success.

### CASE STUDY \ 01

#### Nutrition Care for Epidemic Prevention Angels

To secure the dietary nutrition and physical health of medical staff in Chengdu, Tongwei Food launched the "Angel Nutrition Care Program". In March 2020, a team of delegates from Tongwei Co., Ltd. Food paid visits to the Public Health Clinical Centre of Chengdu, AVIC 363 Hospital, Chengdu Seventh People's Hospital and other hospitals, donating company's high-quality aquatic products and food and Tongwei Life Angel Exclusive Cards to more than 1,600 medical staff fighting against the epidemic, delivering fresh food to their homes, improving daily protein intake of medical staff and strengthening their immunity.



### CASE STUDY \ 02

#### Donation of Epidemic Prevention Materials to Overseas Partners

March 2020, Tongwei Co., Ltd. donated disposable medical masks, N95 masks, disposable medical gloves and other epidemic prevention materials to BioMar Group in Denmark, taking practical actions and supporting overseas partners to making progress in the fighting against the epidemic.



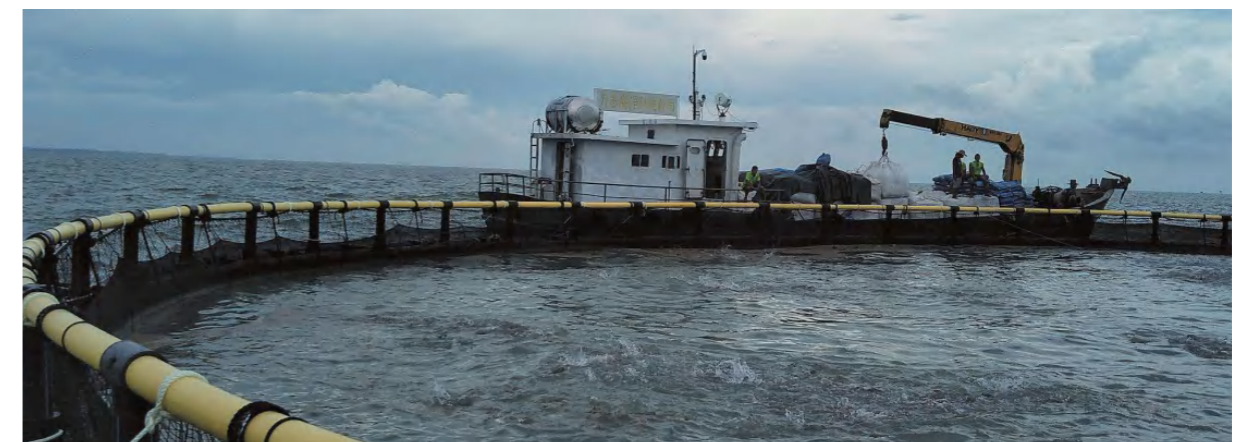
Tongwei Co., Ltd. President Guo Yizhong and Department Heads Supporting BioMar Group in Prevention Efforts against the Epidemic

### CASE STUDY \ 03

#### Helping Farmers to Open up Sales Channels

In February 2020, the East China Region of Tongwei Co., Ltd. launched an initiative, relying on the terminal circulation platform and resources of Tongwei's modern aquatic industrial chain, opening up a green channel for 2.5 million kg of unmarketable crabs in the core

production area of Sihong County, Jiangsu Province, increasing consumption demand, joining hands with local farmers to solve challenges in selling their products and helping farmers stranded by the epidemic to overcome difficulties.





# KEY PERFORMANCE

## Key Economic Performance

No.	Indicators	2020 Performance Data
1	Total assets	RMB64,251,948,070.91
2	Operating revenue	RMB44,200,270,334.23
3	Operating cost	RMB36,648,405,064.38
4	Basic earnings per share	RMB0.86 per share
5	Weighted average return on equity	16.13%
6	Net assets attributable to shareholders of the listed company	RMB30,541,405,029.73
7	Net profit attributable to shareholders of the listed company	RMB3,607,923,359.56
8	R&D expenses	RMB1,035,331,434.68
9	The total number of authorized technology patents	273 patents (incl. 66 invention patents)

## Key Environmental Performance

No.	Indicators	2020 Performance Data
1	The total carbon emissions	6,038,665.94 tCO <sub>2</sub>
2	Purchased electricity	7,621,546,975.00 kWh
3	Renewable energy consumption of the PV manufacturers of Tongwei Co., Ltd.	3,662,237,897.05 kWh
4	Water consumption	23,001,728.47 tons
5	Direct energy consumption	1,727,299,458.83 kWh
6	Indirect energy consumption	643,234,137.94 kWh
7	The total energy consumption	2,370,533,596.77 kWh
8	The total air pollutant emissions	394,829.47 tons
9	The total wastewater discharge	10,172,677.10 tons
10	The total non-hazardous waste	72,760.00 tons
11	The total hazardous waste	651.76 tons
12	The total solid waste	74,465.64 tons
13	Use of packaging materials	14,310.64 tons
14	The number of environmental projects	39
15	The number of energy conservation and emissions reduction projects	268
16	The length of environmental protection training	386 hours
17	Times of environmental protection training	213
18	Expenses of environmental protection	RMB152,230,000
19	Percentage of renewable energy consumption of the PV manufacturers of Tongwei Co., Ltd.	54.16%

## Key Social Performance

No.	Indicators	2020 Performance Data
1	Total tax payment	RMB890,000,000
2	External donation	RMB4,119,119.08
3	The total amount of targeted poverty alleviation	RMB9,586,300
4	The number of employees	25,549 persons
5	Percentage of women employees	25.60%
6	Percentage of ethnic minority employees	6.14%
7	Labor contract signing rate	100%
8	Social insurance coverage rate	100%
9	Coverage rate of occupational health examination	100%
10	The total length of employee training	1,994,909 hours

# OUTLOOK FOR THE FUTURE

Looking ahead to 2021, the 14th Five-Year Plan is already sounding the bugle, with the curtain going up. In the face of multiple strategic opportunities such as “carbon neutrality”, “Chengdu-Chongqing Twin-City Economic Circle” and “Domestic and International Circulation”, Tongwei will enter a new stage, carry out new mission, serve the new situation, continue to consolidate the “two main business” of green agriculture and green energy, unswervingly centre on three global leading positions, consolidate and enhance our global leading positions in high-purity polysilicon and solar cells, as well as achieve our global leading position in aquatic feed.

Furthermore, the Company will actively participate in public welfare undertakings, explore the poverty alleviation by the PV industry in western China with abundant resources of solar energy, achieve economic, environmental and social benefits; continuously enhance internal management and supervision and supplier education and training, eradicate corruption and violation of customer privacy, strive to create an upright, trustworthy, fair and transparent environment of operation; adhere to the people-oriented philosophy, build a solid foundation for safe development, and effectively protect the health and safety of our employees.

Against the background that green and low-carbon development becomes a global consensus, Tongwei firmly places innovation at the core of enterprise development, continuously boosts industrial optimization and upgrade, constantly focuses on green and sustainable development, further practices corporate social responsibility management and fulfillment of responsibility, and actively contributes to the achievement of global goals of carbon neutrality, high-quality economic and social development, and a better future for humankind!

## INDEX OF INDICATORS

### UN Sustainable Development Goals (SDGs)

Sustainable Development Goals	Description	Response to SDGs	Report Page
 1 NO POVERTY	Eliminate poverty in all its forms all over the world.	<ul style="list-style-type: none"> <li>○ Carry out activities of targeted poverty alleviation activities</li> <li>○ Promote local employment</li> <li>○ Contribute to rural revitalization</li> </ul>	P51 P42 P52-53
 2 ZERO HUNGER	Eliminate hunger, achieve food security and improved nutrition, as well as promote sustainable agriculture.	<ul style="list-style-type: none"> <li>○ Make long-term commitment to the development of basic livelihood business - agriculture and animal husbandry</li> <li>○ Continuously improve product/service quality</li> </ul>	P07 P48
 3 GOOD HEALTH AND WELL-BEING	Ensure healthy ways of life, and promote well-being for all at all ages.	<ul style="list-style-type: none"> <li>○ Ensure production safety, carry out occupational health management and safety training</li> </ul>	P39-41
 4 QUALITY EDUCATION	Ensure inclusive and equitable quality education and promote lifelong-learning opportunities for all.	<ul style="list-style-type: none"> <li>○ Establish Tongwei University and place emphasis on internal development</li> <li>○ Create an education base of agricultural science popularization</li> </ul>	P43-45 P52
 5 GENDER EQUALITY	Achieve gender equality and empower all women and girls.	<ul style="list-style-type: none"> <li>○ Protect the basic rights and interests of women</li> <li>○ Provide equal opportunities of employment and development for women employees</li> </ul>	P42
 6 CLEAN WATER AND SANITATION	Ensure availability and sustainable management of water and sanitation for all.	<ul style="list-style-type: none"> <li>○ Establish a system of water conservation management and promote water recycling</li> </ul>	P32
 7 AFFORDABLE AND CLEAN ENERGY	Ensure access to affordable, reliable, sustainable and modernized energy for all.	<ul style="list-style-type: none"> <li>○ Provide clean energy and boost energy transformation in China</li> </ul>	P28 P34
 8 DECENT WORK AND ECONOMIC GROWTH	Promote sustained, inclusive and sustainable economic growth, full and productive employment and ensure decent jobs for all.	<ul style="list-style-type: none"> <li>○ Lawfully employ and protect employee rights and interests</li> <li>○ Care about employees and provide multi-layered welfare protection</li> </ul>	P42 P46
 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	Build resilient infrastructure, promote inclusive and sustainable industrialization, and spur up innovation.	<ul style="list-style-type: none"> <li>○ Focus on the industrialized development of agriculture and animal husbandry, and new energy</li> <li>○ Strengthen technological innovation and digital operation, and place emphasis on performance management</li> </ul>	P07 P18 P24-25
 10 REDUCED INEQUALITIES	Reduce inequality within and among countries.	<ul style="list-style-type: none"> <li>○ Prohibit all kinds of discriminatory practices</li> <li>○ Collect employee opinions and demands through multiple channels</li> </ul>	P42
 11 SUSTAINABLE CITIES AND COMMUNITIES	Make cities and human residences inclusive, safe, resilient, and sustainable.	<ul style="list-style-type: none"> <li>○ Create a modernized agricultural demonstration park integrated with intelligent aquaculture, clean energy, leisure and tourism</li> </ul>	P53
 12 RESPONSIBLE CONSUMPTION AND PRODUCTION	Ensure sustainable consumption and production patterns.	<ul style="list-style-type: none"> <li>○ Advocate green and responsible suppliers</li> <li>○ Deepen emissions control</li> <li>○ Promote energy conservation and consumption reduction</li> </ul>	P50 P29-31 P32
 13 CLIMATE ACTION	Take urgent action to combat climate changes and their impacts.	<ul style="list-style-type: none"> <li>○ Deploy the PV industry and accelerate green transformation</li> <li>○ The Group established a carbon neutral leading group and its subsidiaries established carbon asset management departments</li> </ul>	P34 P28
 14 LIFE BELOW WATER	Conserve and make sustainable use of oceans, seas and marine resources for sustainable development.	<ul style="list-style-type: none"> <li>○ Develop freshwater aquaculture and reduce consumption of marine resources</li> </ul>	P07
 15 LIFE ON LAND	Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and contain bio-diversity loss.	<ul style="list-style-type: none"> <li>○ Improve ecological environment and water conservation in ecologically fragile areas</li> </ul>	P33
 16 PEACE, JUSTICE AND STRONG INSTITUTIONS	Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and establish effective, accountable and inclusive institutions at all levels.	<ul style="list-style-type: none"> <li>○ Perfect corporate governance</li> <li>○ Strengthen internal control and enhance risk management capabilities</li> <li>○ Promote upright practice</li> </ul>	P16-17 P17 P24
 17 PARTNERSHIPS FOR THE GOALS	Reinforce the means of implementation and revitalize the global partnership for sustainable development.	<ul style="list-style-type: none"> <li>○ Establish the strategy of social responsibility</li> <li>○ Establish communication channels with various stakeholders</li> </ul>	P39 P12

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Guidelines for Environmental Information Disclosure of Listed Companies on the Shanghai Stock Exchange

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# READERS' OPINIONS



## Respected readers:

Thank you for reading this report. We appreciate and look forward to your feedback. Your opinions and suggestions are important for us to continuously improve corporate ESG information disclosures and promote corporate ESG management and practice. Welcome and sincerely thank you for your valuable opinions!

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### 1. Your overall assessment of our ESG performance is:

excellent       good       average       bad       very bad

-----

### 2. Your overall assessment of this report is:

excellent       good       average       bad       very bad

-----

### 3. What do you think of our performance of communication with stakeholders?

excellent       good       average       bad       very bad

-----

### 4. What do you think of our performance of product responsibility?

excellent       good       average       bad       very bad

-----

### 5. What do you think of our performance of environment, safety and occupational health?

excellent       good       average       bad       very bad

-----

### 6. What do you think of our performance of employee responsibility?

excellent       good       average       bad       very bad

-----

### 7. What do you think of our performance of ESG?

excellent       good       average       bad       very bad

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### 8. What are your opinions and suggestions for our ESG performance and this report?

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