

# TRUST SUNSHINE, TRUST **TONGWEI**

[en.tongwei.com.cn](https://en.tongwei.com.cn)

Tongwei Solar





# ABOUT TONGWEI



WORLD'S FIRST PV COMPANY LISTED ON THE  
**FORTUNE GLOBAL 500**

**≈ 60,000**

Global  
employees

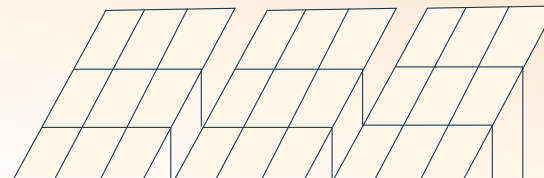
**200+**

Subsidiaries  
worldwide

**42**

Years in business  
Established in 1982

Based in Chengdu, the capital of Sichuan Province,  
the most international city complex in West China.



**TIC**

# | “DUAL GREEN” STRATEGIES |

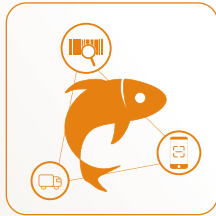
TONGWEI CO., LTD.

Green Agriculture

Green Energy



Feed



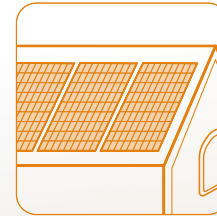
Fishery



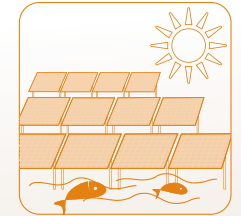
Polysilicon



Solar Cell



PV Module



"Fishery+PV"  
Integration



# PV INDUSTRY CHAIN CAPACITY ROADMAP



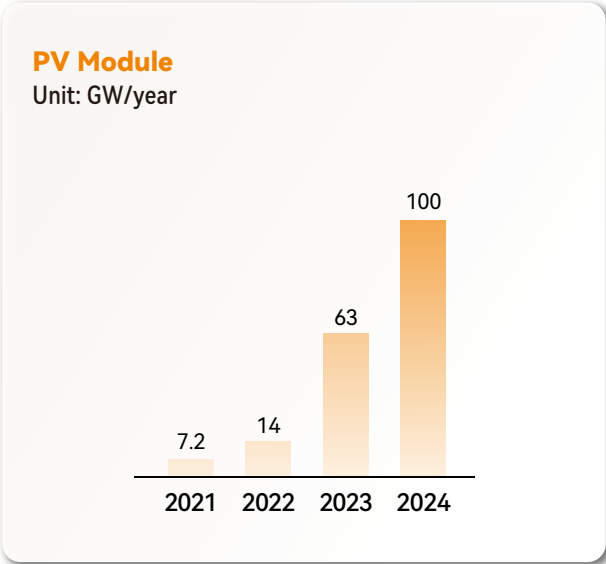
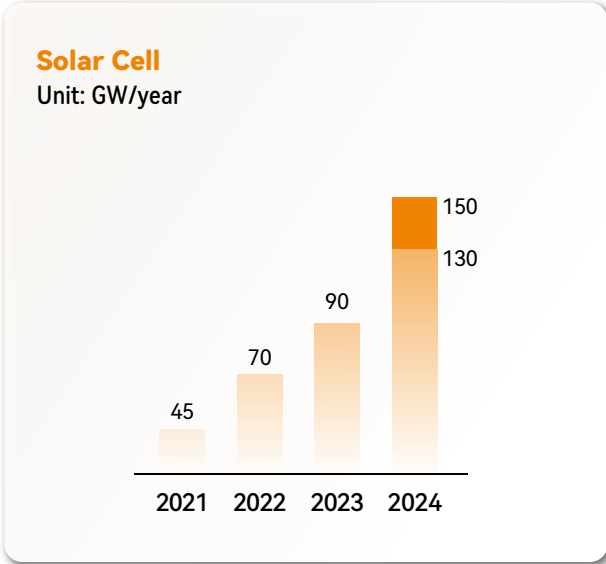
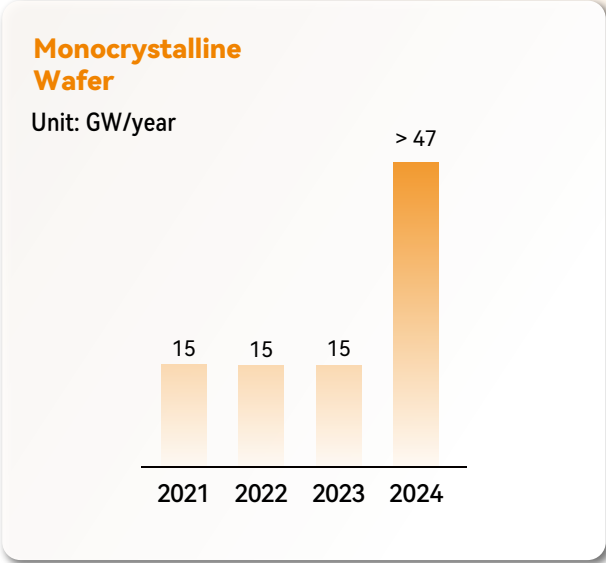
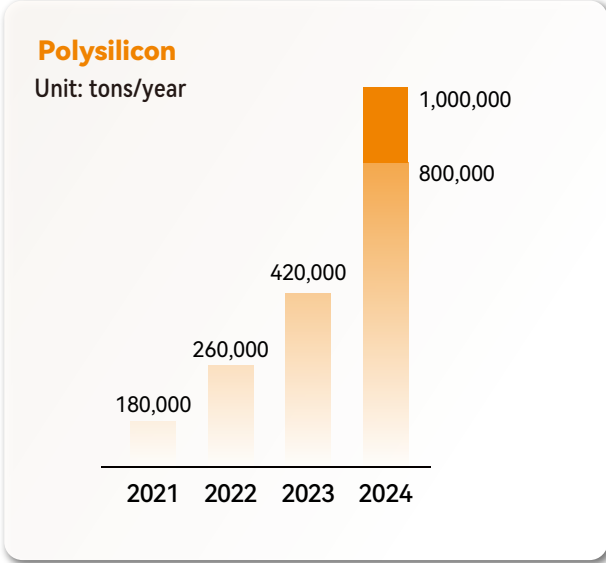
**Polysilicon**  
No.1 global shipments



**Solar Cell**  
No. 1 global shipments  
for 6 consecutive years



**PV Module**  
Bloomberg Tier 1  
module manufacturer




# FINANCIAL STATS

Revenue

**\$10.58** Billion 


YoY growth: **22.75%**

Net Profit

**\$1.90** Billion 

YoY growth: **8.56%**

Total Assets

**\$21.97** Billion 

YoY growth: **5.89%**



**TONGWEI Achieves "A" Ranking  
in 2023 Q4 PV ModuleTech  
Bankability Ratings**



# PRODUCTION BASES

4 for high-purity polysilicon

6 for high-efficiency solar cell and PV module

## 5G Smart Manufacturing

Labor	Energy consumption	Production efficiency
<b>-62%</b>	<b>-30%</b>	<b>+161%</b>



# R&D STRENGTH

**\$653.60** million

2022 R&D Expenses

**3.09%**

Proportion of 2022 Revenue

**1822**

Granted Patents



**“Light-induced activation of boron doping in hydrogenated amorphous silicon for over 25% efficiency silicon solar cells”**

Led by the Tongwei, in collaboration with Chinese Academy of Sciences and Australian National University.

**Featured in the top international journal "Nature Energy"**

- Silicon purity exceeds **99.9999999%**
- **World's 1st** industrial 4.0 solar cell production line
- Technical routes: **TOPCon, HJT, IBC, PSC**
- **3** national-level enterprise technology centers

# QUALITY CONTROL

## High Standards for Raw Materials

- Sets high standards and requirements for raw material suppliers
- Uses high-precision testing equipment
- Establishes a complete raw material testing system

## Advanced In-Process Quality Management

- Takes strict first product control and key process monitoring measures
- Carries out SPC for key process and product characteristics
- Employs an advanced MES system to control material traceability

## Great Customer Service

- Builds professional teams for pre-sales, sales, and after-sales services
- Ensures a smooth flow of information from order review to delivery
- Responds to customer needs promptly



## Product Reliability Assurance

- Obtains CNAS and TÜV NORD certifications for labs
- Puts products through regional certifications including IEC61215&IEC61730, CEC, JPEA, NMETRO, KS, Italian Fire Protection, and MCS
- Passes differentiation tests for salt spray, ammonia, and sand dust

## Optimized System Flow

- Passes ISO9001, ISO14001, ISO45001, ISO50001, and IEC 62941 system certifications

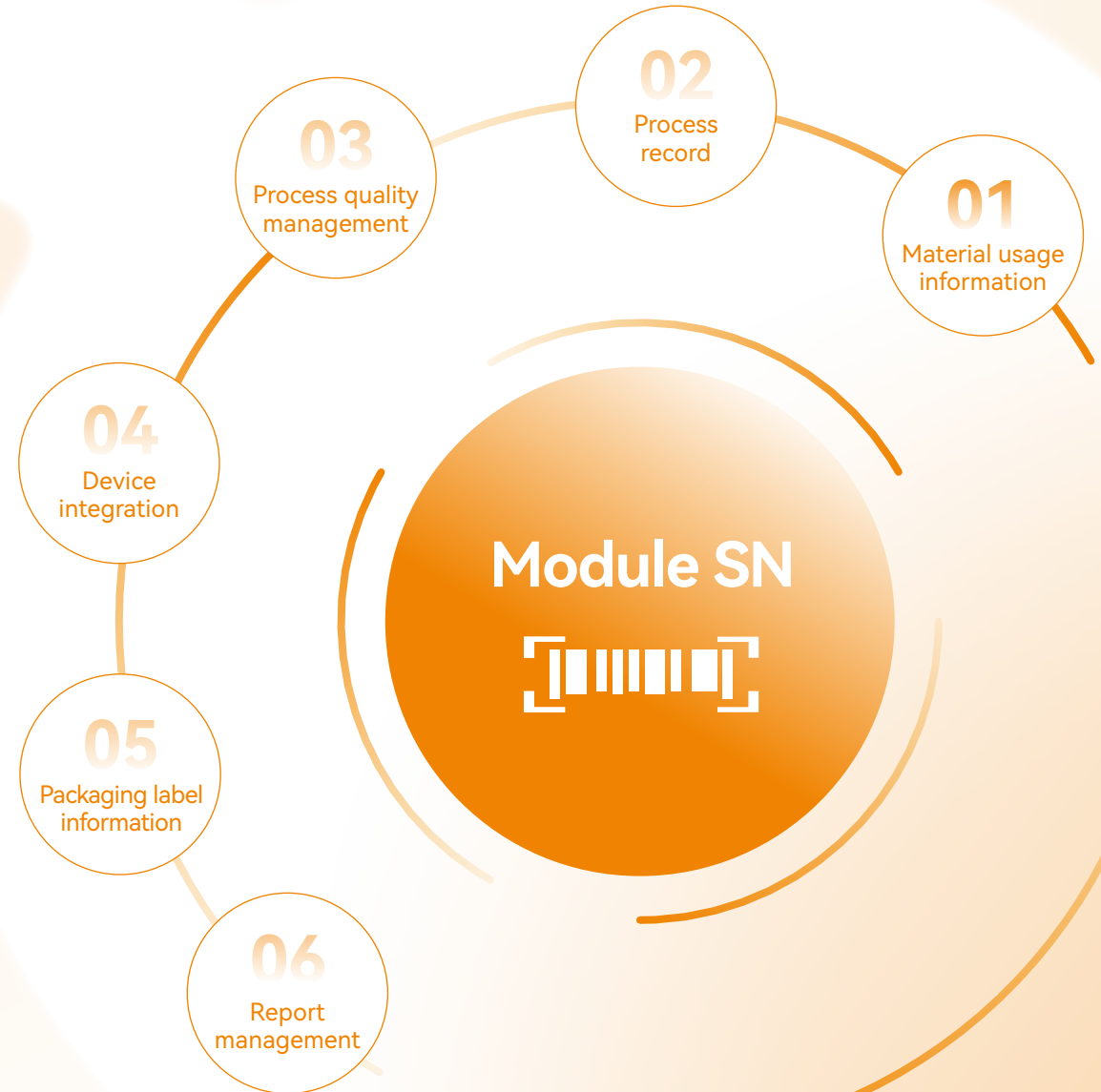
## Strict Product Quality Control

- Implements 100% FQC to ensure the quality of products delivered
- Adds OBA personnel for additional pre-shipment inspection to double insure product quality control

# | SN BARCODE TRACING |

The intelligent workshop has been transformed from Industry 4.0 to Industry 5.0.

"One-Stop" full curriculum vitae tracing of data in the whole process of production, materials, quality and equipment through SN of modules





# GLOBAL JOURNEY



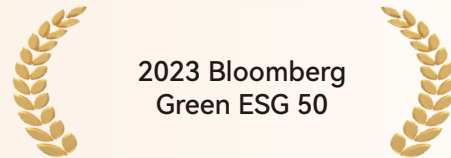
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Tongwei formally entered the module industry in 2023 with its shipments ranking among the **top 10 worldwide**

40<sup>+</sup>

Tongwei's products reach **more than 40 countries and regions** around the world

# ESG HONORS





# | ENVIRONMENTAL PROTECTION |

Environmental Protection Input:  
**124 million USD**

## Use of Renewable Energy

- The consumption of renewable electricity accounted for **81.73%** of the total electricity consumption in Sichuan Province.

## Pollutant Discharge

- Safe disposal rate of industrial solid waste and hazardous waste: **100%**
- Comprehensive utilization rate of non-hazardous waste: **over 95%**

**THANKS**