



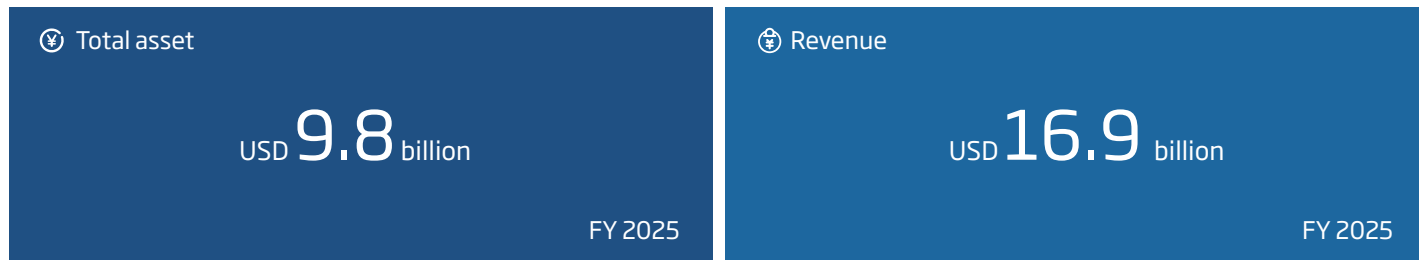
FACT SHEET

# About Trinasolar

We are committed to leading the way in smart PV and energy storage solutions and facilitating the transformation of new power systems for a net-zero future.

**Mission: "Solar Energy for All"**

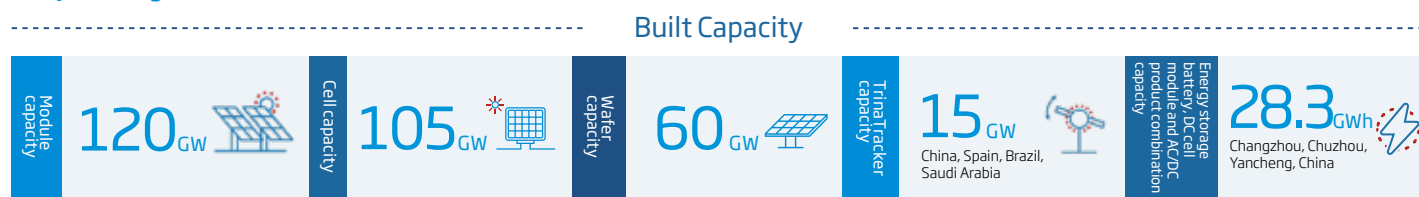
## Financial Soundness



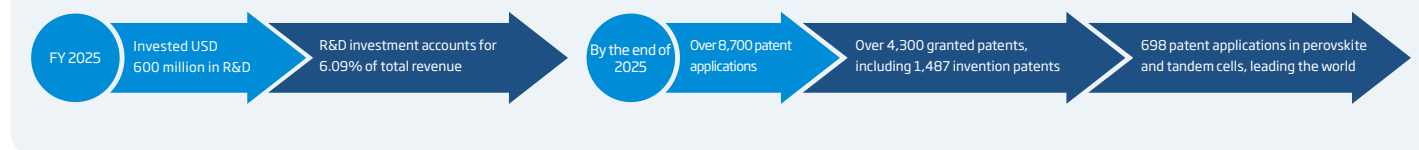
## Global presence



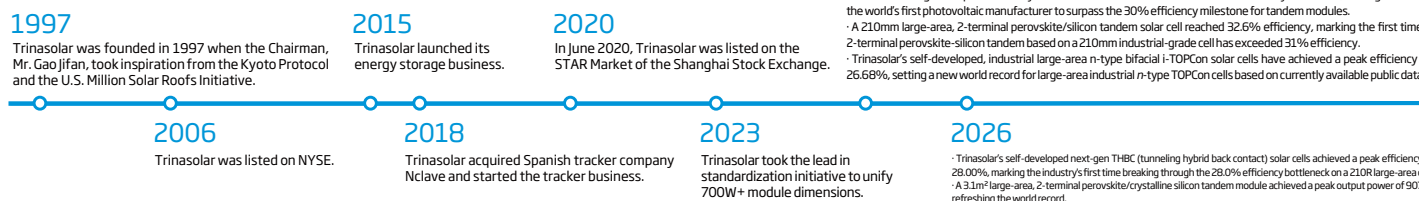
## Capacity



With innovation-driven development as its most important strategy and core driving force, Trinasolar has put in place a comprehensive and leading science and innovation system.

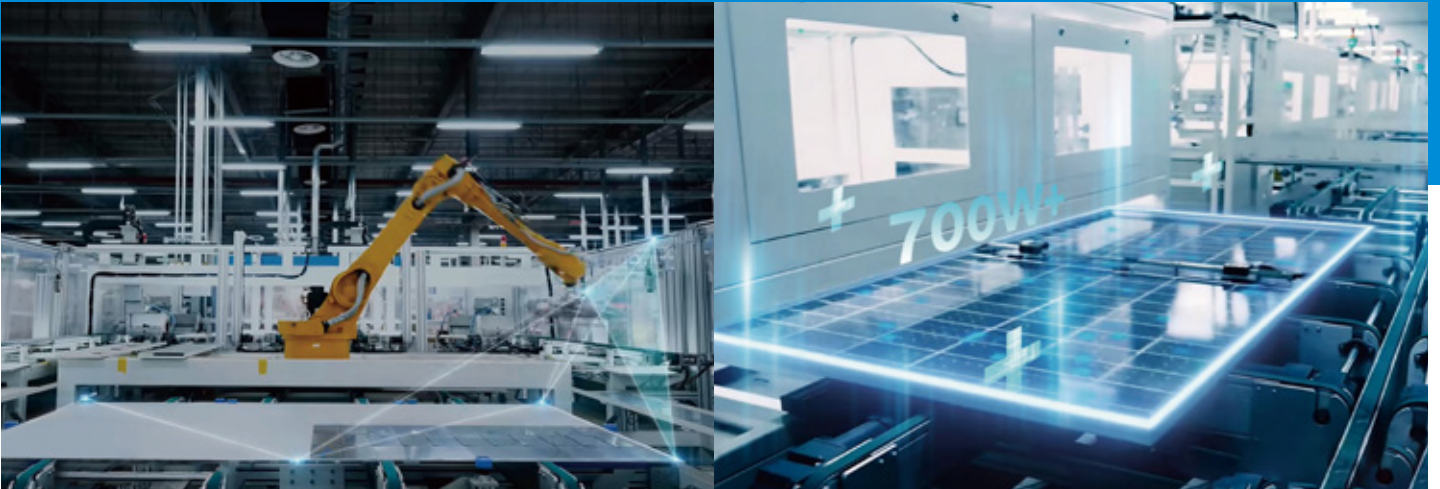


## Milestone



# Module

With a 29 years' legacy of solar technology innovation, Trinasolar leads the industry in standardizing module dimensions across large, medium and small formats. Trinasolar's Vertex N modules deliver all-scenario solutions tailored to the needs of utility-scale, C&I, and residential applications. In 2024, Trinasolar led the industry's leap into the TOPCon 2.0 era with its i-TOPCon Ultra technology, becoming the first to mass-produce 700W+ TOPCon modules. In 2025, driven by the needs of global customers, Trinasolar launched integrated solutions tailored to extreme weather and desert environments, marking a new era for scenario-based PV solutions. Meanwhile, the company has been deeply cultivating the core technology of perovskite tandem cells, breaking world records for cell efficiency and module power output six consecutive times, leading the global rankings for invention patents, and successfully achieving multiple critical industrialization milestones. Additionally, the Vertex S+ series redefines aesthetics for solar modules by combining exceptional performance with an award-winning design. Vertex S+ has earned multiple design accolades including Red Dot Award, the German Design Award, the IDEA Award and the Good Design Award. In 2026, the company launched its self-developed, next-gen THBC solar cells. Combining the advantages of three existing technologies, THBC represents the absolute pinnacle and ultimate synthesis of single-junction crystalline silicon cells. For the future crystalline silicon era, Trinasolar is set to establish a new leadership paradigm driven and mutually supported by a dual-engine strategy: "TOPCon + THBC."



## Shipments

PV Module Shipments  
in FY 2025

67 GW+

PV Module Shipments  
by the end of 2025

327 GW+

cumulative 210 module  
shipments by the end of 2025

236 GW+

★ ranking first globally

## R&D

With i-TOPCon Ultra technology, Vertex N modules have been upgraded, leading the industry into the TOPCon 2.0 era.

Trinasolar is the first module manufacturer to achieve mass production of 700w+ n-type TOPCon modules, leading the industry into the PV 700w+ era.

In 2024, Trinasolar successfully produced the world's first fully recycled c-Si module

In June 2025, Trinasolar's 1185cm<sup>2</sup> large-area perovskite/crystalline silicon tandem module achieved 30.6% efficiency. Trinasolar became the first photovoltaic manufacturer in the world to surpass the 30% efficiency milestone for tandem modules, which is included in Prof. Martin's Solar Cell Efficiency Tables.

In December 2025, independently certified by a third party, Trinasolar's self-developed 210mm large-area 2-terminal perovskite/crystalline silicon tandem solar cell reached a peak efficiency of 32.6%.

In December 2025, Trinasolar's self-developed, high-efficiency n-type bifacial i-TOPCon solar cells achieved a peak efficiency of 26.68%, setting a new world record for large-area industrial n-type TOPCon cells based on currently available public data.

In April 2026, Trinasolar's self-developed, next-gen THBC (TOPCon-compatible hybrid back-contact cell) solar cells achieved a peak conversion efficiency of 28.00%, marking the industry's first time breaking through the 28.0% efficiency bottleneck on a 210R large-area cell, and continuously leading the industry toward a higher-quality future through technological innovation.

In June 2026, Trinasolar's self-developed 3.1m<sup>2</sup> large-area perovskite/crystalline silicon tandem module achieved a power output of 907W

## Global trust and reputation

Trinasolar's bankability and reliability are consistently endorsed by the world's leading financial institutions and independent third-party organizations.



BNEF

Tier 1 Module Manufacturer  
The world's only PV brand rated  
100% bankable by all  
survey respondents for 8 years.



PVEL

Recognized as a "Top Performer"  
module manufacturer for  
eleven consecutive years



RETIC

Awarded the  
"Overall Highest Achiever"  
designation for  
five consecutive years



PV ModuleTech

Highest bankability  
rating for PV modules



Wood Mackenzie

Ranked No.1 in Wood Mackenzie's  
Global Solar Module Manufacturer  
Ranking for H1 2025  
Top 10 Global Photovoltaic Module  
Manufacturers in 2025



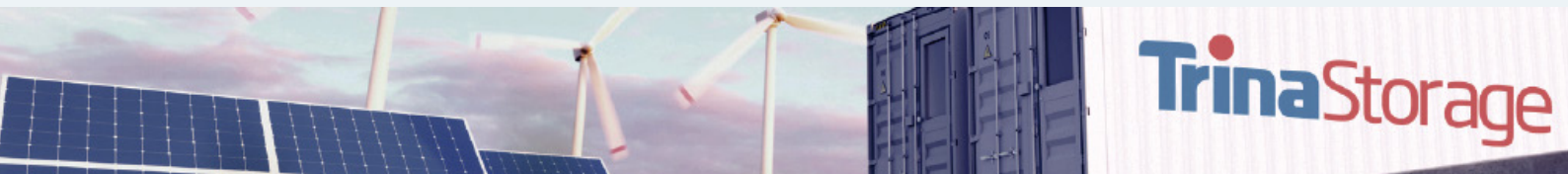
S&P

Tier 1 PV module supplier

Trina Storage, a business unit of Trinasolar, is a global leader in energy storage products and solutions dedicated to transforming the energy landscape. As a vertically integrated energy storage technology provider, it offers comprehensive capabilities spanning battery cell research and development, manufacturing, and system integration. Trina Storage delivers robust, end-to-end solutions characterized by high bankability, cost-effectiveness, safety, and reliability.

In 2025, Trina Storage launched its next-generation Elementa 3 platform with a capacity of over 6MWh in several regions, featuring high-performance battery cells rated at 500Ah+. Through comprehensive improvements in energy density, efficiency, and total lifecycle throughput, the levelized cost of storage (LCOS) has been reduced by 12.5% compared to the previous generation. Features such as one-click site upgrades and real-time monitoring enhance operation and maintenance (O&M) efficiency by up to 90%. Its integrated containerized transportation solution mitigates logistics risks and shortens delivery cycles. This system not only accommodates diverse trading scenarios but also significantly supports cost reduction and efficiency enhancement for power stations, thereby creating greater economic value for customers. Trina Storage's grid-forming solution autonomously constructs the power grid in voltage source mode, providing virtual inertia, short-circuit support, and black-start capabilities, serving as the stability cornerstone for power systems with a high penetration of renewable energy.

Currently, the Elementa series has successfully completed operational validation under a wide range of extreme environmental conditions, including plateaus, severe cold regions, tropical islands, Gobi deserts, and humid rainforests. Trina Storage has delivered GWh-scale orders in multiple countries and regions including Asia, Europe, South America, North America, and the Middle East and Africa. Trina Storage's AIDC full-domain integrated solution is driven by a dual-engine strategy of "generation-storage grid-forming + distribution-load efficiency." It builds an end-to-end, full-link system spanning from energy production to computing power consumption, providing AI data centers with millisecond-level response and highly reliable green energy guarantees.



## Manufacturing

Manufacturing bases  
Chuzhou, Anhui Province;  
Changzhou and Yancheng,  
Jiangsu Province

Cell and ESS capacity  
28.3GWh

## Delivery Assurance

Three system integration engineering centers  
providing localized professional services to customers.

## Shipments

In FY 2025		By the end of 2025	
energy storage shipments exceeded	8 <sup>GW</sup>	cumulative energy storage shipments reached nearly	20 <sup>GWh</sup>
overseas shipments accounting for over	60%	cumulative shipments in Europe exceeding	4 <sup>GWh</sup>
overseas backlog orders exceeded	12 <sup>GWh</sup>	umulative deliveries in North America exceeding	1 <sup>GWh</sup>

## R&D

- ✓ By the end of April 2026, Trinasolar had filed over 1,600 patent applications, including more than 970 patents granted, and participated in the formulation of multiple national standards.
- ✓ 4 R&D platforms: Advanced Energy Storage Technology Research Institute, Energy Storage Engineering Center, Digital Power Research Institute and Power Electronic Research and Development Center.
- ✓ Trinasolar has partnered with Singapore's Agency for Science, Technology and Research (A\*STAR) on innovation in advanced energy storage battery technologies.
- ✓ Trinasolar partnered with NTU Singapore on AI-powered smart energy storage solutions.
- ✓ Trina Storage earned the world's first UL Verified Mark certificate for thermal performance of its liquid-cooled energy storage containers.
- ✓ **In-house Trina Storage Cells:** Extended battery lifetime & performance with up to 12000 cycles.
- ✓ **Elementa 3 Platform:** Built on high-capacity cell technology, sets a new benchmark for scenario-based energy storage solutions through a safer and more reliable system, clearer returns, and greater flexibility across diverse applications
- ✓ **Potentia C&I ESS cabinet\*:** Integrates in-house Trina Storage Cells for a seamless PV+storage ecosystem.

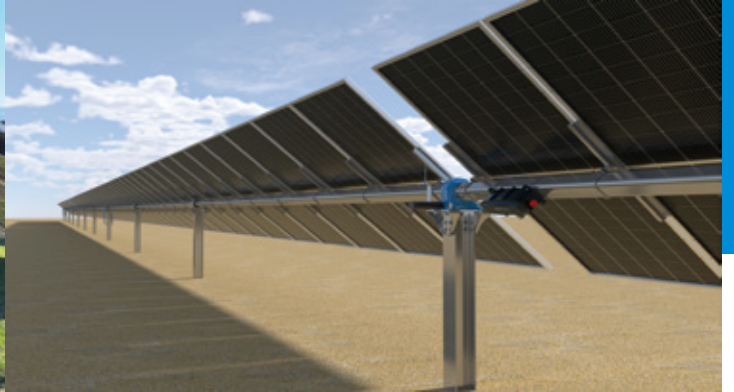
\* Only available in several regions

## Global trust and reputation

<p><b>BloombergNEF</b></p> <p>BNEF</p> <p>Tier 1 energy storage manufacturers for 10 consecutive quarters Top bankable energy storage integrator and manufacturer</p>	<p><b>DNV</b></p> <p>DNV</p> <p>Security and bankability certification</p>	<p><b>UL Solutions</b></p> <p>UL</p> <p>Security and bankability certification</p>	<p><b>SMM</b></p> <p>SMM</p> <p>Tier 1 utility-scale ESS Integrator Tier 1 grid-level ESS Manufacturer</p>	<p><b>S&amp;P Global</b></p> <p>S&amp;P</p> <p>Top 10 energy storage integrators in China, the UK and Australia Tier 1 ESS supplier</p>
<p><b>InfoLink</b></p> <p>InfoLink</p> <p>Ranked 9<sup>th</sup> among Chinese companies on global ESS integrators ranking</p>	<p><b>GGII</b></p> <p>GGII</p> <p>TOP 10 Chinese Energy Storage System (AC-side) suppliers for global shipments &amp; domestic shipments</p>	<p><b>EESA</b></p> <p>EESA</p> <p>Global ESS Shipments TOP 10 Global ESS Battery Shipments TOP 15</p>	<p><b>ESIE</b></p> <p>ESIE</p> <p>Top 10 in global energy storage shipment</p>	<p><b>CNESA</b></p> <p>CNESA</p> <p>Top 10 global shipment in Chinese ESS integrators (H1 2025)</p>

TrinaTracker is a leading smart tracker solution provider within Trinasolar. It specializes in solar tracker development, manufacturing, engineering design, installation, and maintenance. With 27 years of experience in the solar mounting systems business, TrinaTracker is the only company with R&D and engineering centers in both Europe and Asia for modules and trackers.

TrinaTracker has two main product lines: Vanguard-1P and Vanguard-2P. Its Smart Control System, which includes the Super-Track smart algorithm, Trina Smart Cloud, and electronic control systems, has been verified to enhance the power generation of solar plants.



## Manufacturing

Manufacturing bases in  
China, Spain, Brazil  
and Saudi Arabia

Global capacity  
**15GW**

## Delivery Assurance

TrinaTracker has multiple operation centers (Asia, the Middle East & Africa, Europe, the Americas) to deliver localized solutions and services.

## Shipments

Over **43** GW+ cumulative shipments  
by the end of 2025

TrinaTracker has delivered solar  
mounting systems for over **900** solar power plants  
in more than **70** countries.

## R&D

Over **200** patent applications, including worldwide patents for a spherical bearing and the Trina Clamp.

**Technological and Research Centers** in Spain and China; partnered with multiple universities and tech companies in renewable energy R&D, including Institute of Solar Energy at Universidad Politécnica de Madrid.

Development of **advanced smart tracking solutions**, designed for complex scenarios, integrating Artificial Intelligence and digitalization strategies for future PV plants.

## Global trust and reputation



Reuters

Reuters Top 100 Innovators of  
Global Energy Transition



DNV

Technical due diligence  
evaluation



S&P

Top 6 solar tracker supplier  
globally in 2024



Wood Mackenzie

Ranked No. 2 globally in the global PV tracker rankings  
Top 6 solar tracker supplier globally in 2024  
Top 4 solar tracker suppliers in  
Latin America, Middle East, Europe, Asia Pacific



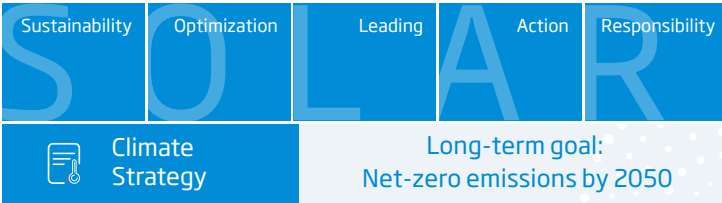
SMM

Tier 1 PV Tracker Supplier

# Sustain with SOLAR

Trinasolar joined the United Nations Global Compact (UNGC), building a more sustainable future together with global participants.

## Trinasolar's Sustainability Management Concept



### ESG Ratings

- EcoVadis 2025 Silver Medal for Sustainability Performance
- Morningstar Sustainability ESG Risk Rating score of 25.6
- S&P Global CSA rating 64
- Sustainable Fitch brand score 82, rating "2"
- CDP climate change and water security evaluations at Management level (B)
- Wind ESG rating of AA
- Sino-Securities Index ESG rating of AA
- Six-Star "Excellent" Rating issued by the China Supplier ESG Rating Platform

### Sustainability Awards and Honors

- Fortune China ESG Impact List 2025
- S&P Global Sustainability Yearbook (China Edition) 2026
- Wind Top 100 Best ESG Practices of China Listed Companies
- Bloomberg Businessweek/Bloomberg Green 2026 Watch List - "ESG Leader"
- Yicai & Shanghai Modern Service Industry Federation - Sustainable Pioneer Case
- EUPD Research Sustainable Information Disclosure Award
- BSI Sustainability Performance Award
- Huxiu "Sustainable Brand Model" Awards - Energy Saving & Carbon Reduction
- Huxiu "Sustainable Brand Model" Awards - Corporate Compliance
- China Energy News - Leading Carbon -Neutral Brand with Green Impact
- China Enterprise Reform and Development Society (CERDS) - Demonstration Enterprise for Supply Chain ESG Management

## Environmental Performance

GHG Emissions Intensity of		Integrated Energy Consumption Intensity of		Water Consumption Intensity of	
Cell	Module	Cell	Module	Cell	Module
Decreased by <b>43.43%</b> ▼ from the 2020 baseline	Decreased by <b>75.19%</b> ▼ from the 2020 baseline <span>target achieved</span>	Decreased by <b>28.16%</b> ▼ from the 2020 baseline	Decreased by <b>53.18%</b> ▼ from the 2020 baseline <span>target achieved</span>	Decreased by <b>91.62%</b> ▼ from the 2020 baseline <span>exceed the target</span>	Decreased by <b>84.02%</b> ▼ from the 2020 baseline <span>exceed the target</span>

2024 Asia-Pacific Water Management Award

## Sustainable Manufacturing

- Trinasolar holds ISO 14040, ISO 14001, and ISO 50001 certifications and conducts annual greenhouse gas inventories per ISO 14064 standards.
- In 2025, Trinasolar completed 57 energy-saving projects across 35 facilities, cutting electricity use by **145,000 MWh**.
- In 2025, Trinasolar invested USD **32 million** in energy-saving and environmental protection initiatives.
- In 2025, **278,000 MWh** of renewable electricity was generated by on-site PV.
- In 2025, Trinasolar was awarded APAC Water Stewardship of the Year by Environmental Finance.
- Trinasolar's Changzhou, Suqian and Yancheng manufacturing facilities are recognized as National Green Factory; Yiwu manufacturing facility is awarded with a four-star "Zero-carbon" certification; Yancheng Dafeng manufacturing facility received **zero-carbon factory and zero waste landfill certificates** from TÜV Rheinland. The two manufacturing sites also earned ESG certifications from the Solar Stewardship Initiative.
- TrinaTracker received carbon footprint certification for its manufacturing plant in Viana, Spain, granted by Bureau Veritas.

## Product Lifecycle Green Management

- In 2024, Trinasolar successfully produced the world's first **fully recycled c-Si module**.
- Trinasolar's Vertex, Vertex N modules are granted UL EPD certifications and EPD Italy certification; the full range of Vertex N modules have obtained carbon footprint certification; Vertex S+ modules are awarded for EPD Norway and EPD International.
- TrinaTracker Vanguard 1P and Vanguard 2P received Bureau Veritas Carbon Footprint Verification.
- Elementa 2 earned full lifecycle EPD certification by UL Solutions, complied with ISO 14067, and obtained Life Cycle Assessment (LCA) Certificate.

## Social Performance

Female employee ratio: <b>26.05%</b>	Female managers ratio: <b>24.85%</b>	Employees with disabilities: <b>38</b>	Annual training hours per employee: <b>25.98 hours</b>	Training completion rate: <b>100%</b>	Occupational health and safety investment: <b>USD 11 million</b>	Community contribution and charities investment: <b>RMB 1.6 million</b>
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<b>ISO 27001</b> Information Security Management System Certification	<b>ISO 45001</b> Occupational Safety and Health Management System	<b>SA 8000</b> Social Responsibility Certification	<b>ISO 9001</b> Quality Management System
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Trinasolar has signed the United Nations Women's Empowerment Principles (WEPs), reaffirming its commitment to advancing global gender equality and empowering women.

## Corporate Governance

Violations of business ethics or unlawful practices: <b>0</b>	Women accounted for of the board of directors: <b>33.33%</b>	Annual audit plan completion rate: <b>100%</b>	Completion rate of business ethics report processing: <b>100%</b>	Assessment from TÜV Rheinland of the full traceability chain: <b>AA</b>	The percentage of suppliers who have signed the Supplier Social Responsibility Commitment: <b>100%</b>
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Trinasolar holds ISO 37301 Compliance Management System Certification and ISO 37001 Anti-Bribery Management System Certification

Established Intellectual Property Management Committee and integrated IP management into the Employee Code of Business Conduct and Ethics, fostering company-wide IP protection awareness.