TCL |

CORPORATE DECK

June 2026



Our new corporate structure

TCL | SUNPOWER

Parent Company

TCL

Corporate Brand

How we introduce TCL solar unit in Australia & Europe.

TCL | SUNPOWER

Product brands

Catering to all your business solutions & customer profiles

SUNPOWER

High-end

TCL SOLAR

Accessible premium

Patented Technologies

TOPCon Shingled

Back Contact Half Cut Shingled

TOPCon Half Cut

Back Contact Half Cut

TOPCon Shingled

Manufacturing

环晟光伏 HUANSHENG SOLAR

TCL Zhonghuan Energy Technology (formerly Huansheng Photovoltaic (Jiangsu) Co., Ltd) has been the manufacturing partner since 2015.

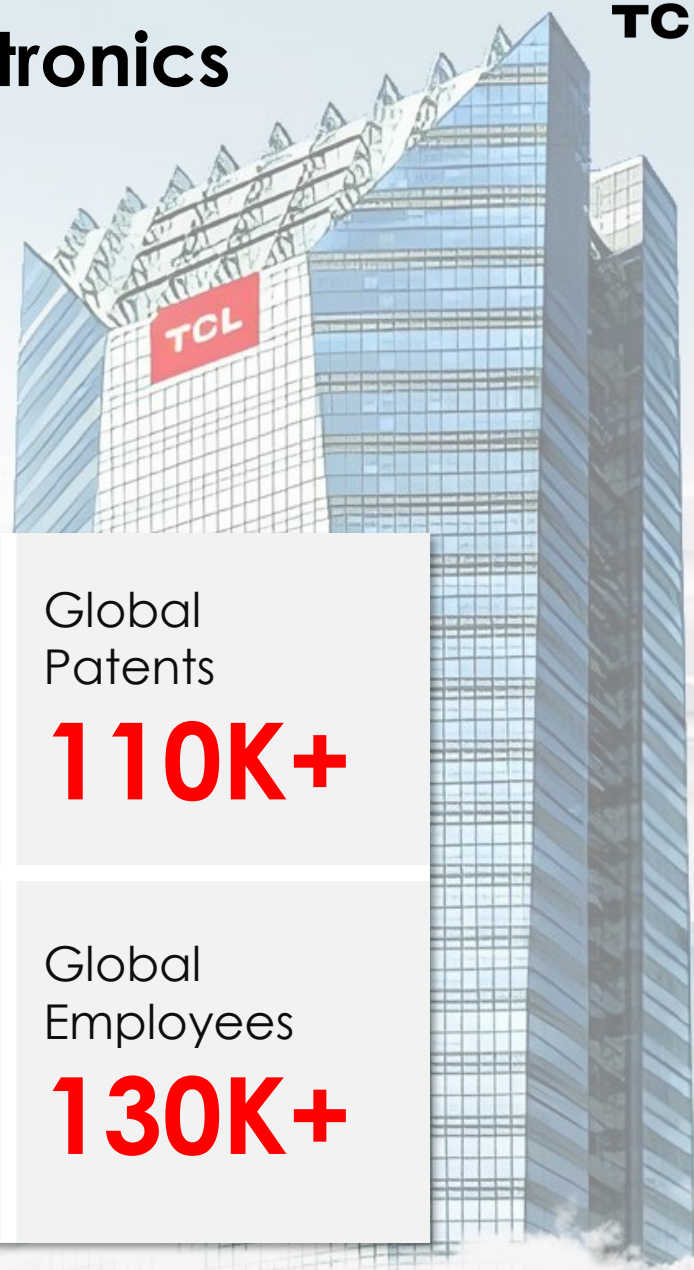
TCL

Corporate presentation



TCL: a global leader in consumer electronics

TCL | SUNPOWER



Founded in 1981, TCL is committed to **"Building a Sustainable and Connected Future with Advanced Technology,"** dedicated to empowering a smart, healthy lifestyle by enabling next-generation intelligent experiences.

Founded **1981**	Global Service Customers **1.3B**	R&D Professionals **20K+**	Global Patents **110K+**
Annual Operating Income in 2024 **$44.9B**	Global Footprint **160+**	Manufacturing bases **38**	Global Employees **130K+**

Note：Revenue Data Based on Exchange Rate as of March 20, 2025

Growing market share across the world

TCL | SUNPOWER

Global rankings across product categories



No.1

OEM TV



No.1

Game Display Panel



No.1

PV Crystalline Silicon Wafer and IC silicon wafer



No.2

LCD Display Panels



No.2

TV Panels



No.4

Air Conditioner

Data source: Omdia, IDC, Industry Online and other third-party research organizations

TCL

Worldwide Olympic Partner

INSPIRE GREATNESS

PROUD TO BE WORLDWIDE OLYMPIC PARTNER

MILANO CORTINA 2026 | TCL WORLDWIDE PARTNER | MILANO CORTINA 2026



Team TCL

MILANO CORTINA 2026

TCL: Outstanding global brand awareness



The power of TCL SunPower

TCL | SUNPOWER

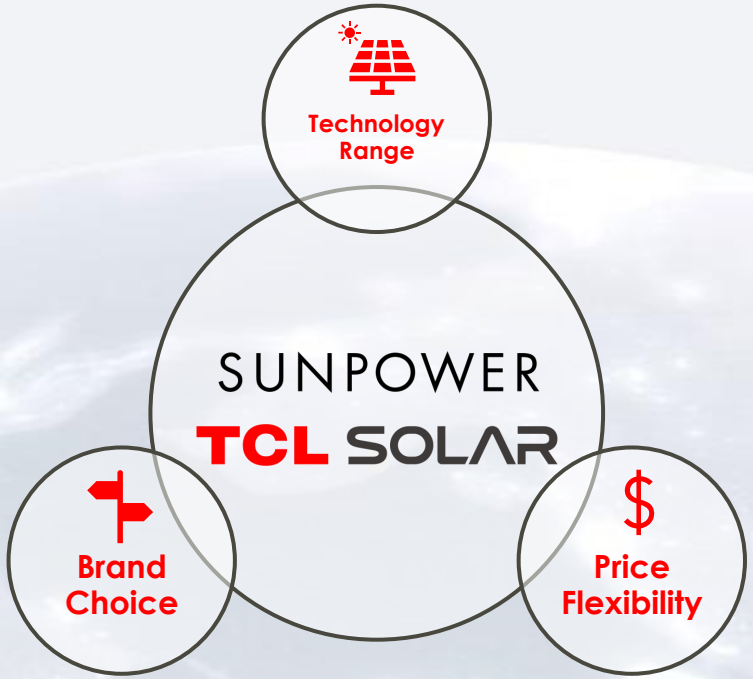
SUNPOWER

Invented Back Contact technology
Dick Swanson founder of SunPower is also credited for the development of IBC technology. Learn more here.

1900+ PV patents
Industry-leading intellectual property portfolio

40+ years of Back Contact expertise
Decades perfecting high-performance BC solar technology

Proven superior reliability and durability
We power some of the largest Utility scale power plants in the toughest environments with some operational since 2005



Providing the strength of choice

"Providing the choice of the brand narrative with a tiered product portfolio designed to meet all market segments — from value-driven options to high-performance premium solutions."

TCL

Financial Power - $44.9B
Strong bankability and global scalability positioned for the long term

#1 Wafer manufacturer
From silicon wafers to home appliances, we're better able to control costs and quality across a complex supply chain.

Top 5 Global Solar Manufacturer
Leading manufacturer of silicon wafers , cells and panels

Brand Recognition
Trusted by over +1.3 billion users worldwide

TCL | SUNPOWER

45+ years of outstanding innovations in PV

45+
Years combined experience

1958
Foundation of Zhonghuan. Producing mono germanium.

1969
Zhonghuan started the R&D of mono silicon.

1981
Foundation of TCL.

1985
SunPower is founded by Dr. Richard Swanson.

2005
SunPower's first utility power plant.

2007
SunPower IBC solar cell with record-breaking 22+% efficiency.

2016
Develop and mass produce 130 ultra-thin silicon wafers.

N-type thin film production capacity ranks first in the world.

2020
Zhonghuan to join TCL Group.

Tianjin Huanzhi 25GW project put into operation, making it the world's first Industry 4.0 silicon wafer factory.

2021
50GW ultra-thin PV monocrystal wafer fab.

2022
TCL Solar Institute established.

35GW high-purity ultra-thin monocrystallin e silicon solar material smart factory project starts construction.

2023
Signed a strategic Agreement with Saudi VI.

2024/2025
Inner Mongolia 10GW high-Efficiency solar module smart factory project.

TCL acquires 100% of Maxeon's (SunPower) solar business outside of the US.



TCL (TZE's) Global Operations



Globally certified by leading authorities

TCL | SUNPOWER

BloombergNEF Tier1 PV MODULE MANUFACTURER
TCL Solar's recognition as a BloombergNEF Tier 1 PV Module Manufacturer highlights its proven global competitiveness and strategic progress in the photovoltaic industry, backed by independent authority.

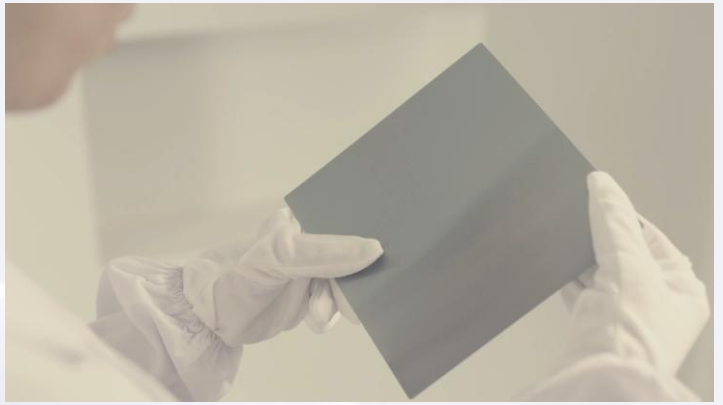
S&P Global Tier 1 Solar Panel Manufacturers List TCL Solar has been ranked on the inaugural S&P Global Tier 1 Solar Panel Manufacturers List, with its global competitiveness receiving authoritative international recognition.

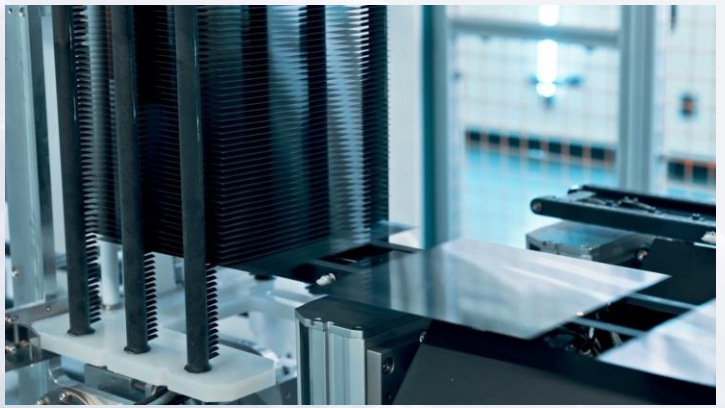
TÜV Rheinland Authoritative Certification TÜV Rheinland grants TCL Solar access certification for four major international markets, providing strong backing for TCL Solar's global strategy.

kiwa PVEL – TCL Solar and SunPower modules listed in TOP Performer reports in June 2026

From ingot to Module: watch here

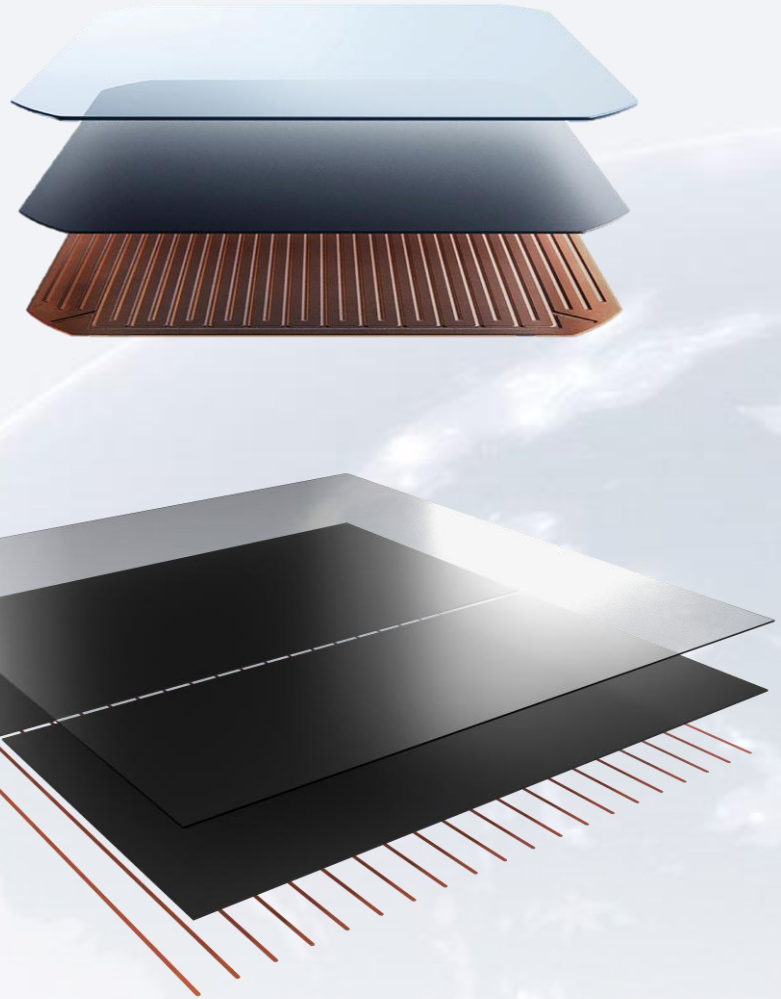







Leading the Back Contact revolution



Global IP & Technology Agreement

Maxeon & AIKO Settlement (Feb 2026): Maxeon Solar Technologies (a TCL Zhonghuan subsidiary) reached a global patent agreement with AIKO.

BC Technology Licensing: AIKO secures a license for all Maxeon **BC (Back Contact)** solar cell and module patents outside the US, covering current and future patents for the next 5 years.

Accelerating Innovation: Valuing Intellectual Property (IP) enables high-efficiency technologies to scale globally, driving smarter and faster industry progress.

TCL - TOP 5 Solar module manufacturer

TCL | SUNPOWER

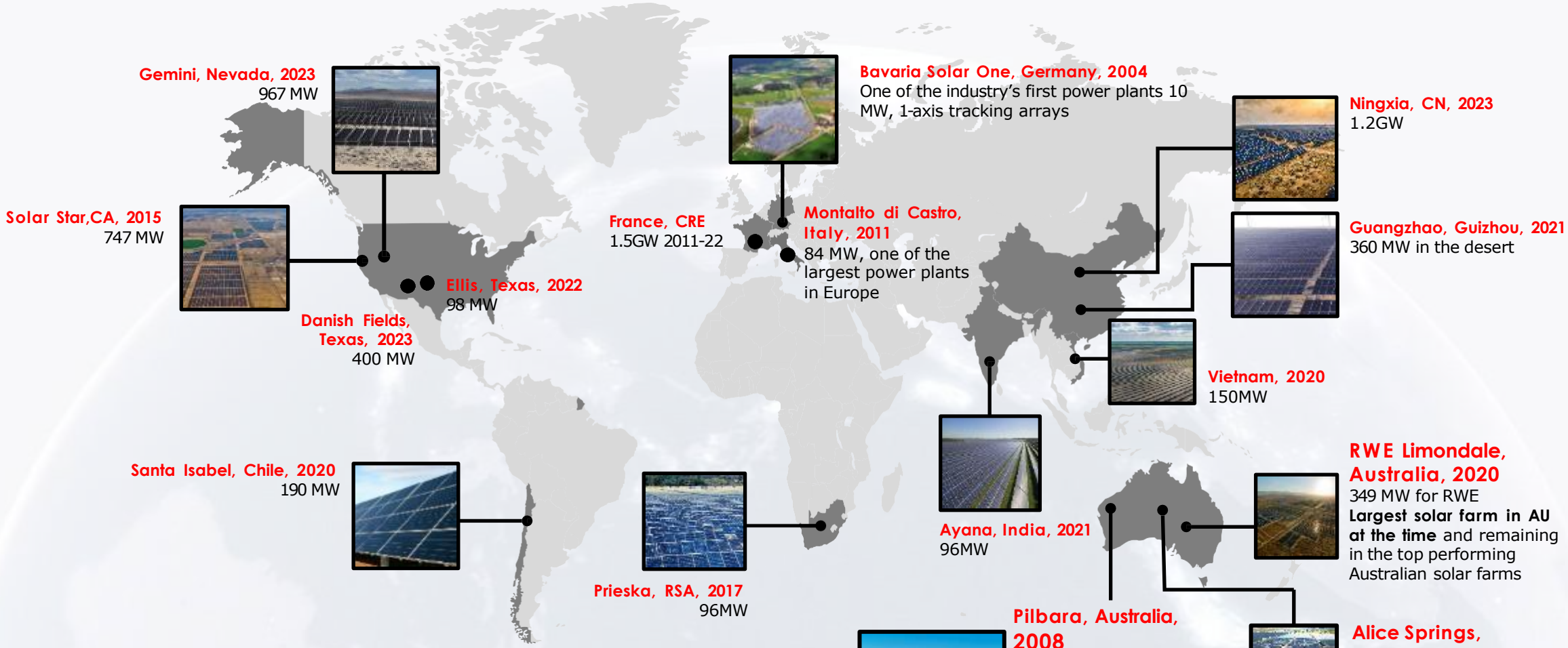
- **DAS Solar Acquisition (Q1 2026):** Following exclusive discussions in January, an official announcement was released on March 30th to acquire a controlling stake in DAS Solar.
- **Global Top 5 Positioning:** Combined with TCL Zhonghuan's 200GW wafer capacity and existing 24GW module capacity, total module capacity now exceeds **40+ GW**, propelling the company into the global TOP 5 solar module manufacturers.
- **Next-Gen R&D Collaboration:** The partnership includes plans for joint innovation platforms to explore next-generation N-type technologies, such as back contact (BC) cells, perovskite tandem cells, and TOPCon back contact (DBC) solar technology.

DASOLAR



Our panels power some of the largest and oldest utility scale power plants in the world: a testament to our reliability

TCL | SUNPOWER



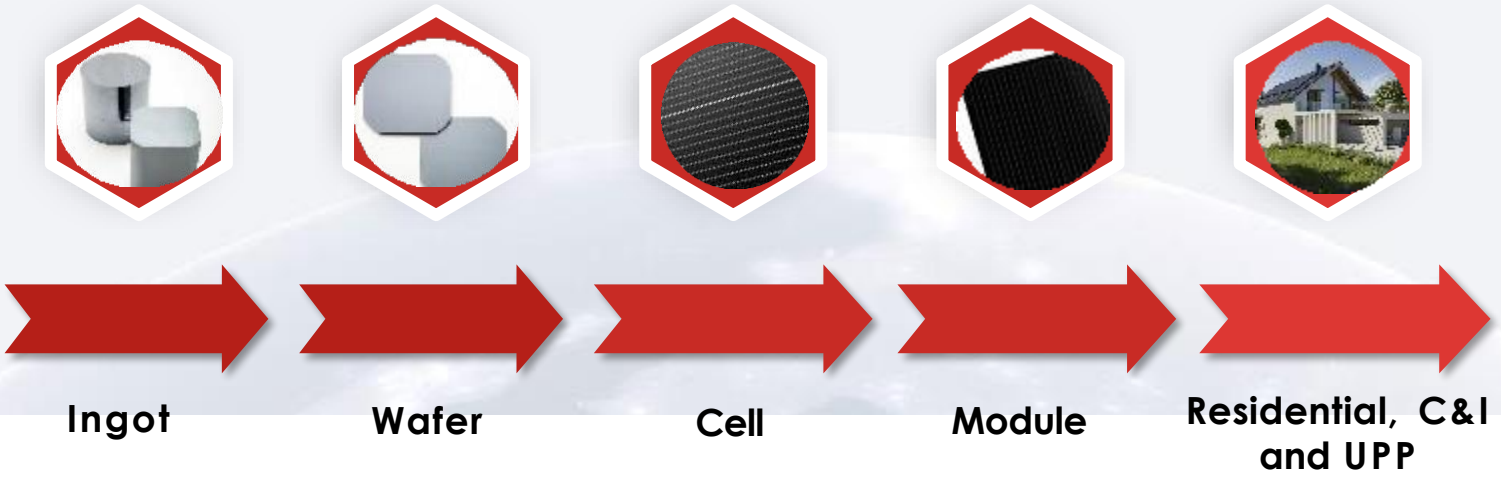
TCL

Supply Chain Provenance and Traceability



A *truly* vertically integrated solar player

TCL | SUNPOWER



National High-tech Enterprise

14

Provincial and Ministerial Level R&D Center

10

Cumulatively own valid authorized intellectual property rights

1900+

R&D technicians

1400+

TCL PV in China

7+ GW

total capacity under service

200k+

installations in 23 provinces

Photovoltaic Materials

N-type G12 Silicon monocrystal technology research and development

210 Development of silicon wafer thinning technology

Photovoltaic cell modules

Module 4.0 Technology Platform Development

Scale of our operations: #1 Global Wafer Producer in 2024*

TCL | SUNPOWER

1969

The earliest company engaged in PV industry in China.

#1

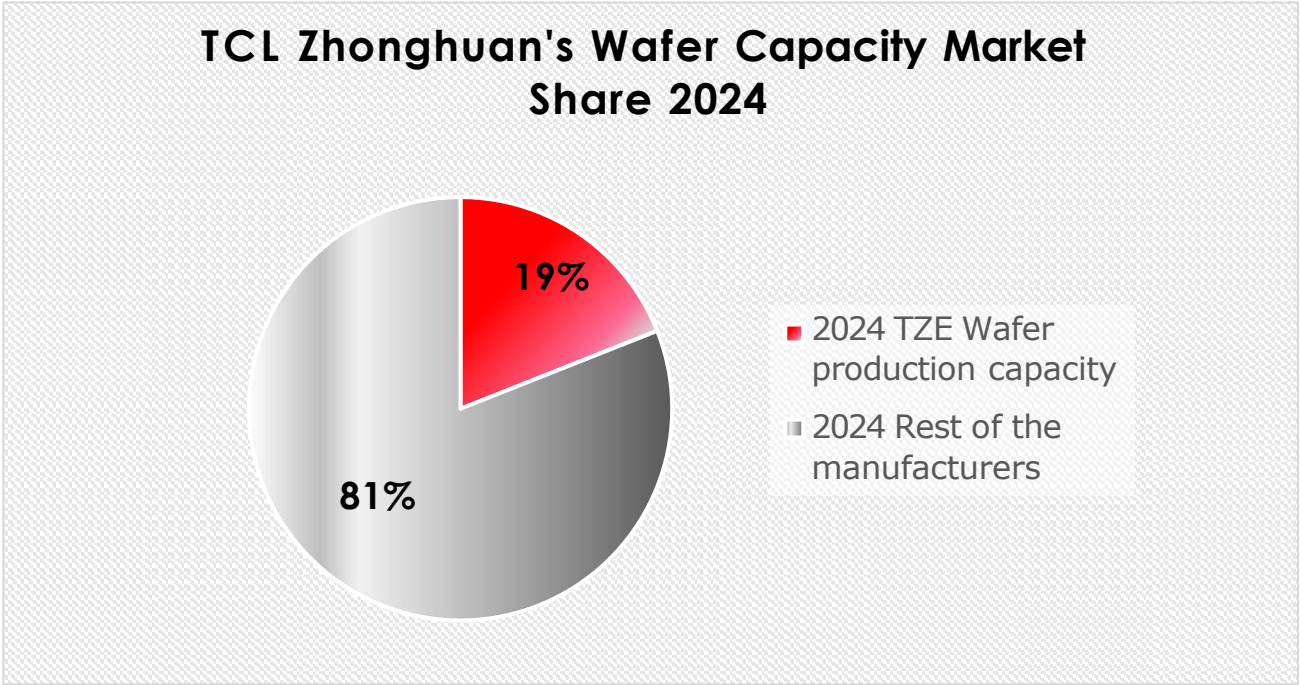
Photovoltaic silicon wafer manufacturer and supplier.

19%

TZE's 2024 wafer capacity market share with a year-end total production capacity of **190GW**.

16%

TZE's 2024 wafer shipment market share with a year-end total shipment of **125GW.***



Source: Bloomberg

TCL | SUNPOWER

ESG

A core principle of our business conduct.



TZE's continuous ESG efforts recognized by third parties

TCL | SUNPOWER

MSCI	In October 2025, our MSCI ESG Rating was upgraded **from BBB to A,** ranking among the Global Leaders in the photovoltaic industry.
CDP	In November 2025, our CDP Global Environmental Information Disclosure Questionnaires for both Water Security and Climate Change received **the management level (B) score.**
S&P Global	In November 2025, we received a score of **65** in the S&P Global 2025 CSA Rating.
国证指数 CNI Index	In 2025, we were rated **AAA** by the Shenzhen Stock Exchange's CNI ESG Index.
Wind ESG TCL中环 AA	In August 2025, our Wind ESG Rating was upgraded **from A to AA**.
ecovadis	In March 2026, TCL ZHONGHUAN ENERGY TECHNOLOGY (JIANGSU) CO LTD has earned a **Silver Medal,** a recognition awarded to the Top 15% of companies assessed by EcoVadis in the 12 months prior to the medal issue date.
TÜVRheinland CERT SA 8000	In May 2026, TZE was awarded the TUV Rheinland Certificate SA8000 (Social Accountability 8000) which is an internationally recognized certification standard for social responsibility in the world of work. The SA8000 advocates compliance with internationally recognized labor rights as set out in the UN Declaration of Human Rights, conventions of the International Labor Organization (ILO) and other international human rights standards and national labor law.

[1]Detailed information of this rating can be accessed by copying the link and viewing it https://recognition.eco-vadis.com/Gs-SHzsqjECld3Oiupwo9w

Deep Dive into our Chinese manufacturing

TCL | SUNPOWER

Focus on our Chinese supply chain

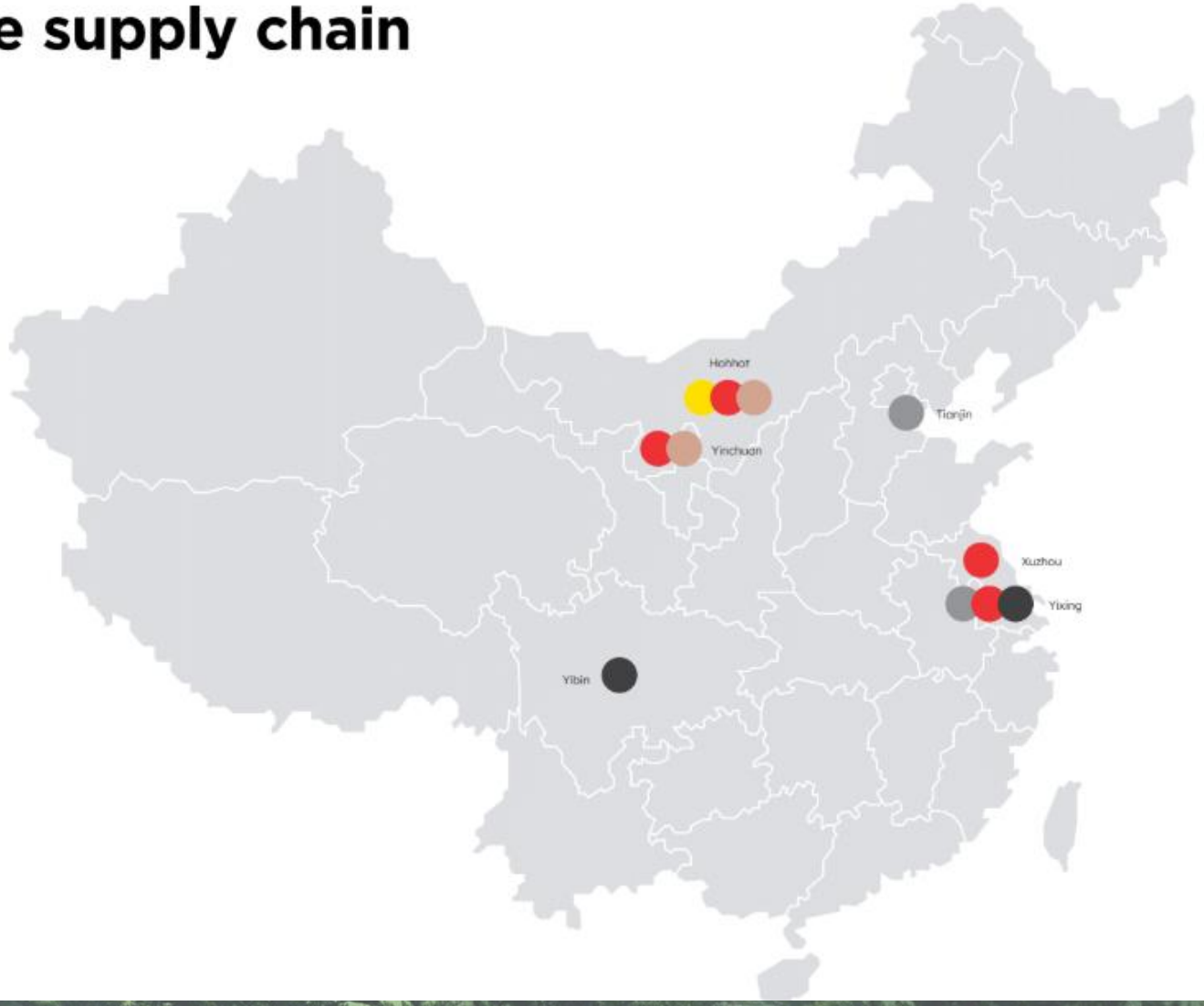
Focus on our Chinese supply chain

We have mapped all of the supply locations for our Chinese suppliers' production of polysilicon, ingots, wafers, cells and modules from and between locations in China.

Movements of these components within the products we sell are tracked using the Manufacturer Execution System (MES) to ensure traceability from China to a customer's rooftop in Australia. Further details on traceability can be directly requested through TCL SunPower Australia entity.

None of these suppliers are in Xinjiang, UAR.

- Monocrystalline silicon
- Ingot
- Wafer
- Cell
- Module



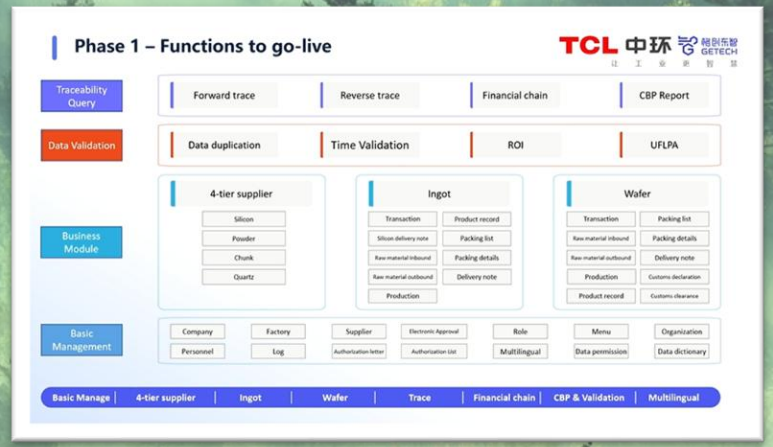
Our commitment to transparency and traceability

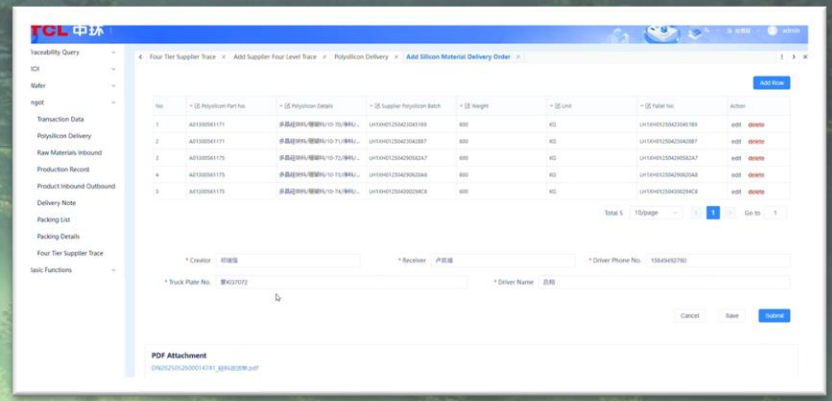
TCL | SUNPOWER

Supply Chain Initiative: Digital Traceability Tool (H2 2026)

- **End-to-End Visibility:** Launching a bilingual (Chinese–English) digital tool tracking the entire solar panel supply chain, from upstream quartz sourcing to downstream module manufacturing.
- **Advanced Tracking Systems:** Utilizes barcode tracking and a digital passport system to capture and verify data at every stage.
- **Enhanced Transparency:** Strengthens supply chain oversight and accountability, providing stakeholders with reliable information on product origin and lifecycle to support responsible sourcing.







In depth reporting available



2025 AU Modern Slavery Statement

The 2025 Modern Slavery Statement will be available soon. Submission planned for 25th June 2026. This report is submitted voluntarily.

2024 copy here



TCL Zhonghuan (TZE) 2025 ESG Report

TZE has elevated its sustainability governance to Board-level oversight, establishing a top-down governance structure with clear responsibilities, defined.

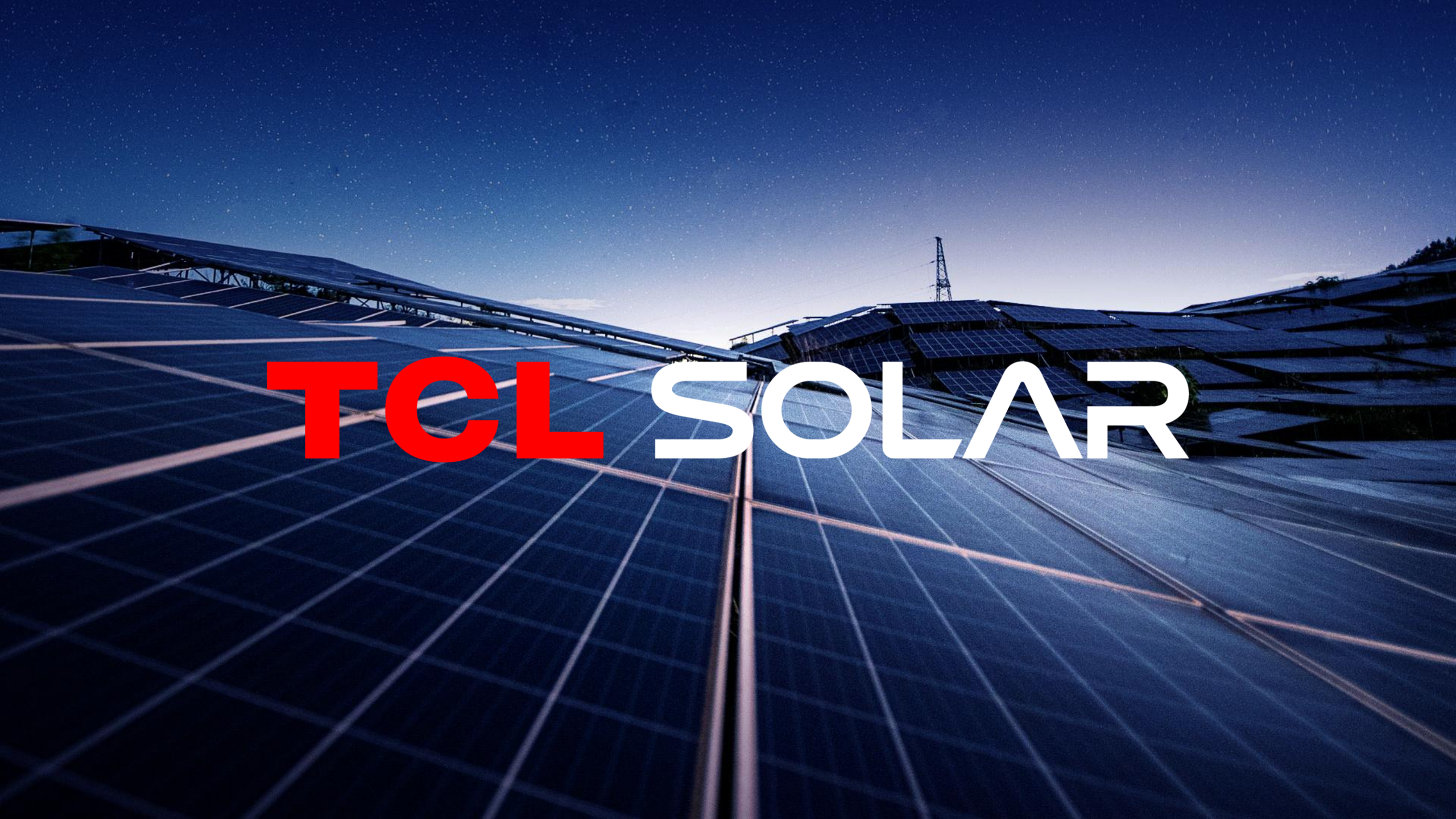
Click here



TCL Electronics 2025 ESG Report

The reporting scope of the Report covers the Group's display business (including large-sized display, small-and-medium-sized display, and smart commercial display businesses), innovative business (including smart connection, smart home, all-category marketing, and photovoltaic businesses) and internet business. It aims to present the Group's ESG performance in a balanced manner, particularly ESG matters that may significantly impact the sustainability of the Group's business operations and are of high concern to stakeholders.

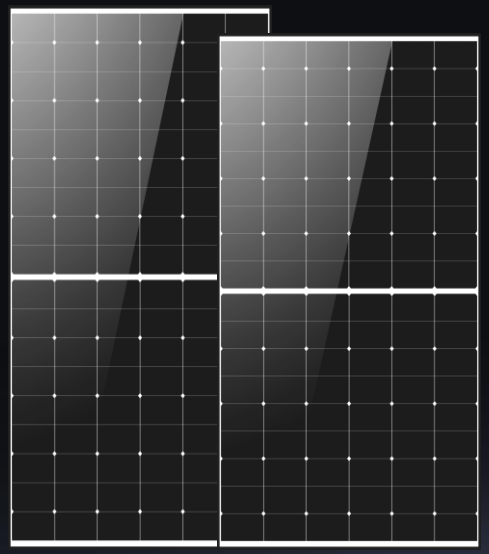
Click here

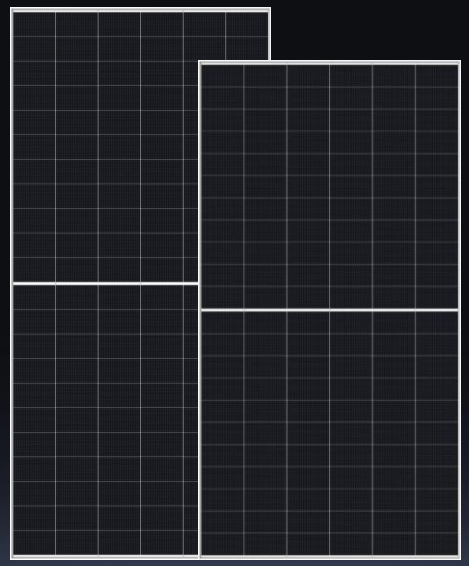

TCL SOLAR

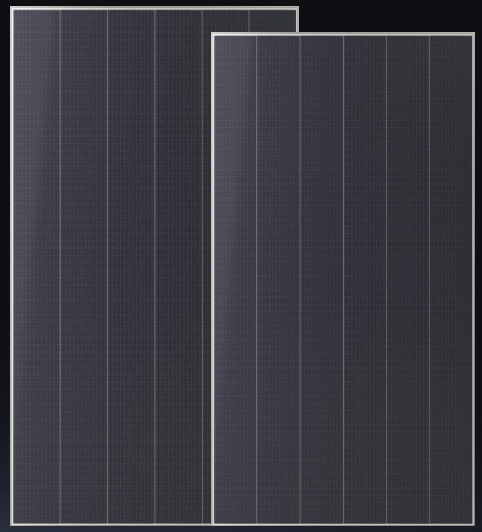
A complete product portfolio satisfying every business requirement

TCL SOLAR

A complete and diverse range of products and technologies designed to meet the needs of all types of businesses and customers, from residential applications to utility-scale power plants.







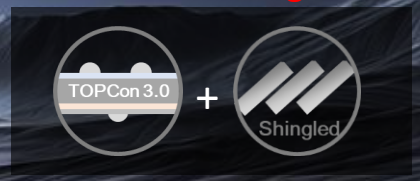
Back Contact



TOPCon Half-Cut



TOPCon Shingled



Most advanced G12 wafer manufacturing in the industry

TCL SOLAR

Benefits

Large-sized design
G12 wafer (210mm) demonstrates a 60.8% increase in illumination area compared to the M6 wafer (166mm)

More power output
10 W per G12 solar cell

→ **Expanding power potential with larger wafers**

Ultra-thin slicing
130 μm wafer and less silicon consumption

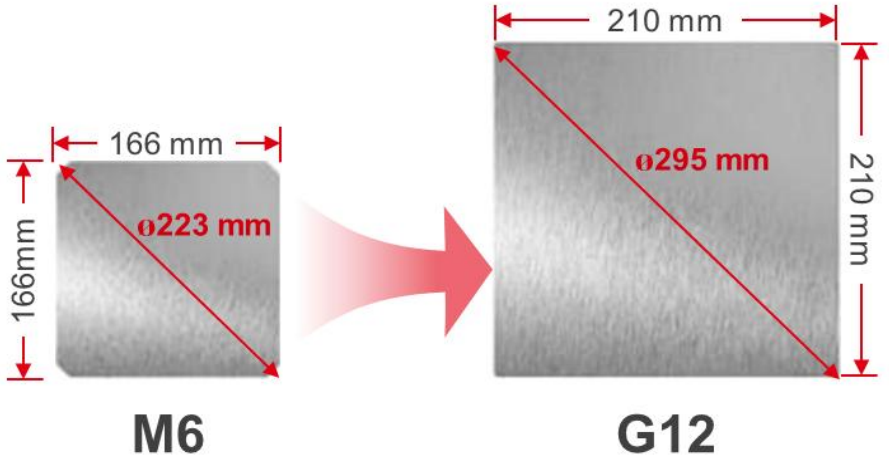
Cost-effective
5.3% reduction in levelized cost of electricity (LCOE)

→ **Stronger financial returns on solar investments**

Eco-friendly processes
Reduced energy consumption

→ **Commitment to sustainability**

G12 Diameter	LCOE Reduction
60.8% ↗	5.3% ↘



TCL Solar Back Contact Technology

TCL SOLAR

What is BC Cell Technology?

Back Contact (BC) solar cells are a high-efficiency solar cell technology where both the positive and negative electrodes are placed on the backside of the cell. This design effectively reduces shading area and enhances the absorption and utilization efficiency of sunlight. The founder of the BC technology is Dick Swanson, also founder of SunPower.



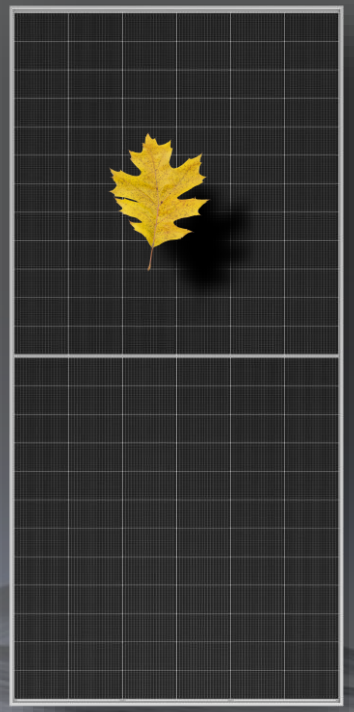
Higher power generation, reliable and secure

TCL SOLAR

Cell-level bypass diode technology

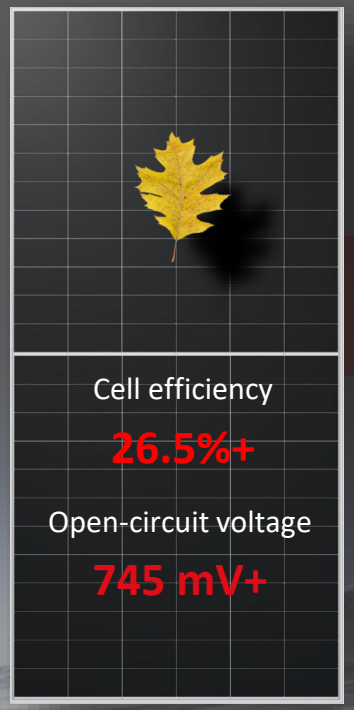
Shading scenarios such as:
bird droppings, leaf shading, etc

TOPCon Modules



VS

BC Modules



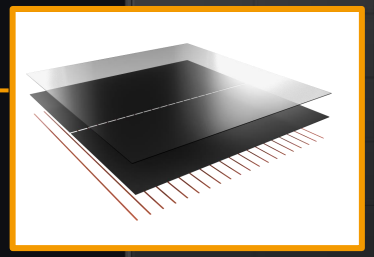
BC energy generation improved by +10% (o también: BC energy yield improved by

+10%

Back Contact Half Cut

TCL SOLAR

Back Contact Copper Ribbon cell architecture



Shingled construction

Cell Module Gap between cells ≤0mm

Glass / glass construction
Proven hail durability

Certified against **40mm** hail impact.

Intelligent shade management

Cell-level bypass diode technology

Can be installed as close as 50 m from the sea.

Certified to the highest severity for salt mist (test method 8), ensuring corrosion resistance and reliable performance.

Certified for agricultural installations

Ammonia Resistance testing guarantees performance in agricultural and high-ammonia environment.

High lifetime energy production with a low panel degradation rate of 0.35% p.a. ensures more consistent power output throughout panel lifespan.

No more trade-off between aesthetics and efficiency

No busbar design and eliminating front metal lines present a more visually appealing rooftop install.

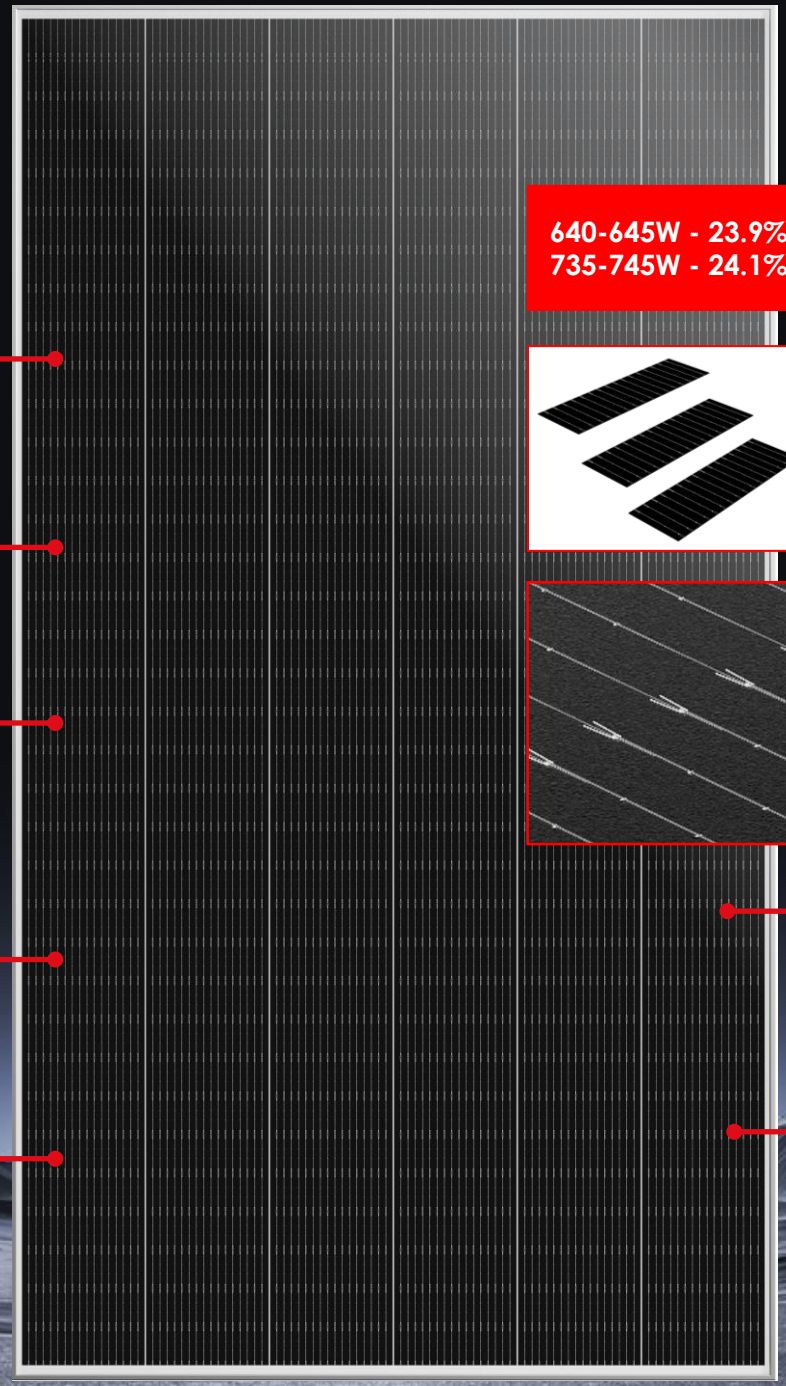
Backed by TCL

One of the world's most established consumer electronics enterprises

15 PRODUCT | 30 POWER
WARRANTY

T5 PRO Shingled

TCL SOLAR



NEW! N-TYPE TOPCON G12R+ Cell technology increasing efficiency.

Enhanced PID resistance

EPE encapsulant combines the best attributes of POE and EVA, to prevent long-term power loss and ensures sustained energy output.

Installed as close as 50 m from the sea.

Certified to the highest severity for salt mist (test method 8), ensuring corrosion resistance and reliable performance.

Proven hail durability

Hail Resistance testing against **35 & 45 mm hailstone proves panel's** resilience in harsh weather conditions.

Certified for agricultural installations

Ammonia Resistance testing guarantees performance in agricultural and high-ammonia environment.

640-645W - 23.9%
735-745W - 24.1%

BIFACIAL in 2 formats with silver frame

TOP Con Shingled, one-third-cut cells create shorter, more efficient paths for current to flow. **Exclusive owned patent to TCL SunPower.**

Flexible cell connections enable uninterrupted energy flow.

High lifetime energy production

Low panel degradation rate of 0.35% p.a. ensures more consistent power output throughout panel lifespan.

Backed by TCL Solar Comprehensive Warranty

15 PRODUCT | 30 POWER WARRANTY

15 PRODUCT | 30 POWER WARRANTY

TCL Solar Half-Cell TOPCon Technology

TCL SOLAR

What is TOPCon?

TOPCon, short for “Tunnel Oxide Passivated Contact”, is an advanced solar cell technology that utilizes an N-type silicon base to enhance efficiency and performance.



Additional authorized operating environments for TOPCon

TCL SOLAR

Salt mist, ammonia corrosion, and hail impact

Modules can be installed in the following harsh environments, according to the specified test limits:

- ✓ Salt mist corrosion test: Test method 8 of the IEC 61701 standard (Maximum severity)Resistencia
- ✓ Ammonia corrosion resistance: Concentration according to IEC 62716: 6,667 ppm
- ✓ Hail impact resistance: 40 mm hail



Effect of salt mist on unmaintained metals (o también: on untreated metals)



Effect of ammonia gases from livestock on unmaintained metals.

Key Advantages Of Our Half-cell Topcon Modules

TCL SOLAR



Installed as close as 50 m from the sea

Certified for maximum severity in salt mist (test method 8), ensuring corrosion resistance and reliable performance

Proven hail resistance

Hail resistance tests with impacts of up to 40 mm demonstrate the panel's robustness under adverse weather conditions.

Certified for agricultural installations

Ammonia resistance tests guarantee performance in agricultural and high-ammonia environments

Enhanced PID (Potential Induced Degradation) Resistance

EPE encapsulant combines the best features of PoE and EVA to prevent long-term power loss and ensure sustained power output.

High energy yield over its lifetime

The low annual panel degradation rate of 0.4% ensures a more consistent power output over the entire lifespan

Backed by TCL Solar's comprehensive warranty

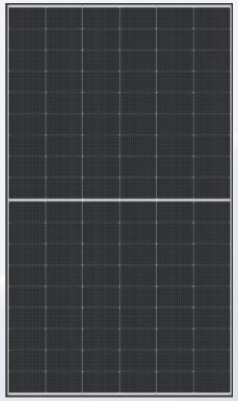
Up to 25-year product warranty and 30-year power warranty; warranty varies by market and product.

Panel Portfolio

TCL | SUNPOWER

TCL SOLAR

TOPCon Half Cut



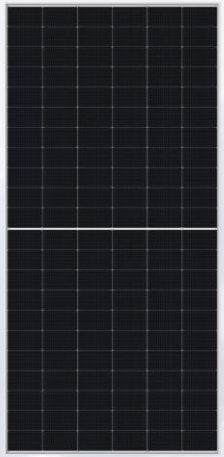
G12R-54P

510W- 515W
Up to 23.2% efficiency

Commercial
Bifacial
Half-cut Cells
Glass-Glass
(White)

1961x1134x30

Warranty
Product – 25 yrs
Power – 30 yrs



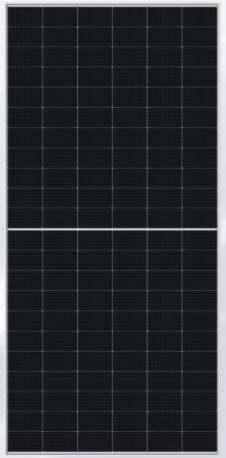
G12R-66P

630W -635W
Up to 24.1% efficiency

UPP
Bifacial
Half-cut Cells
Glass-Glass
(White)

2382×1134×30

Warranty
Product – 15 yrs
Power – 30 yrs



G12-66P

725W-730W
Up to 23.7% efficiency

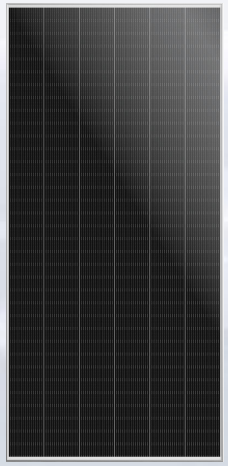
UPP
Bifacial
Half-cut Cells
Glass-Glass
(White)

2384x1303x33

Warranty
Product – 15 yrs
Power – 30 yrs

TCL SOLAR

TOPCon T5 Pro Shingled



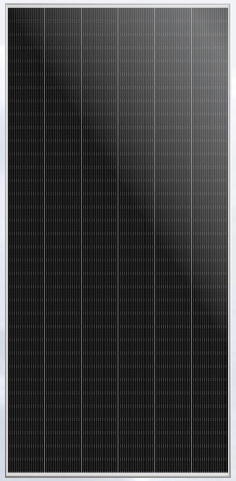
G12R+-66P

645W-650W
Up to 24.8% efficiency

UPP
Bifacial
Half-cut Cells
Glass-Glass
(White)

2382×1134×30

Warranty
Product – 15 yrs
Power – 30 yrs



G12+-66P

735W-745W
Up to 24.3% efficiency

UPP
Bifacial
Half-cut Cells
Glass-Glass
(White)

2384x1303x33

Warranty
Product – 15 yrs
Power – 30 yrs

TCL SOLAR

Back Contact Half Cut



197-54P BLK

485W-495W
Up to 24.7% efficiency

Commercial
Monofacial
Half-cut Cells
Glass-Backsheet
(Black)

1954x1134x30

Warranty
Product – 25 yrs
Power – 30 yrs



G12R-66P

650W-655W
Up to 25% efficiency

Commercial
Bifacial
Half-cut Cells
Glass-Glass
(White)

2382 x 1134 x 30 mm

Warranty
Product – 15 yrs
Power – 30 yrs

TCL

Manufacturing Prowess



Industry 4.0 Flexible Manufacturing Capabilities

Quickly Respond to Diverse Customer Needs

- Driven by the transformation of the manufacturing mode of **Industry 4.0**, all automation breakpoints of the core processes have been opened up, the automation level has been increased to 95%, and the production capacity has been increased by 20%.
- The production line **is flexible and compatible with multiple products,** and product switching can achieve fast mold change
- The combination of RFID and VID enables **accurate tracing** of every small strip of cells, with a data accuracy rate of ≥96%.
- **AOI visual inspection** is fully enabled at key production sites. Through big data algorithms and machine learning, defective products are not transmitted to downstream, ensuring the quality of module products.

Provide High Quality Product Delivery

AOI Central Control Room / Central Control Large Screen in the Workshop Cockpit



AOI Serial Inspection Machine Interface



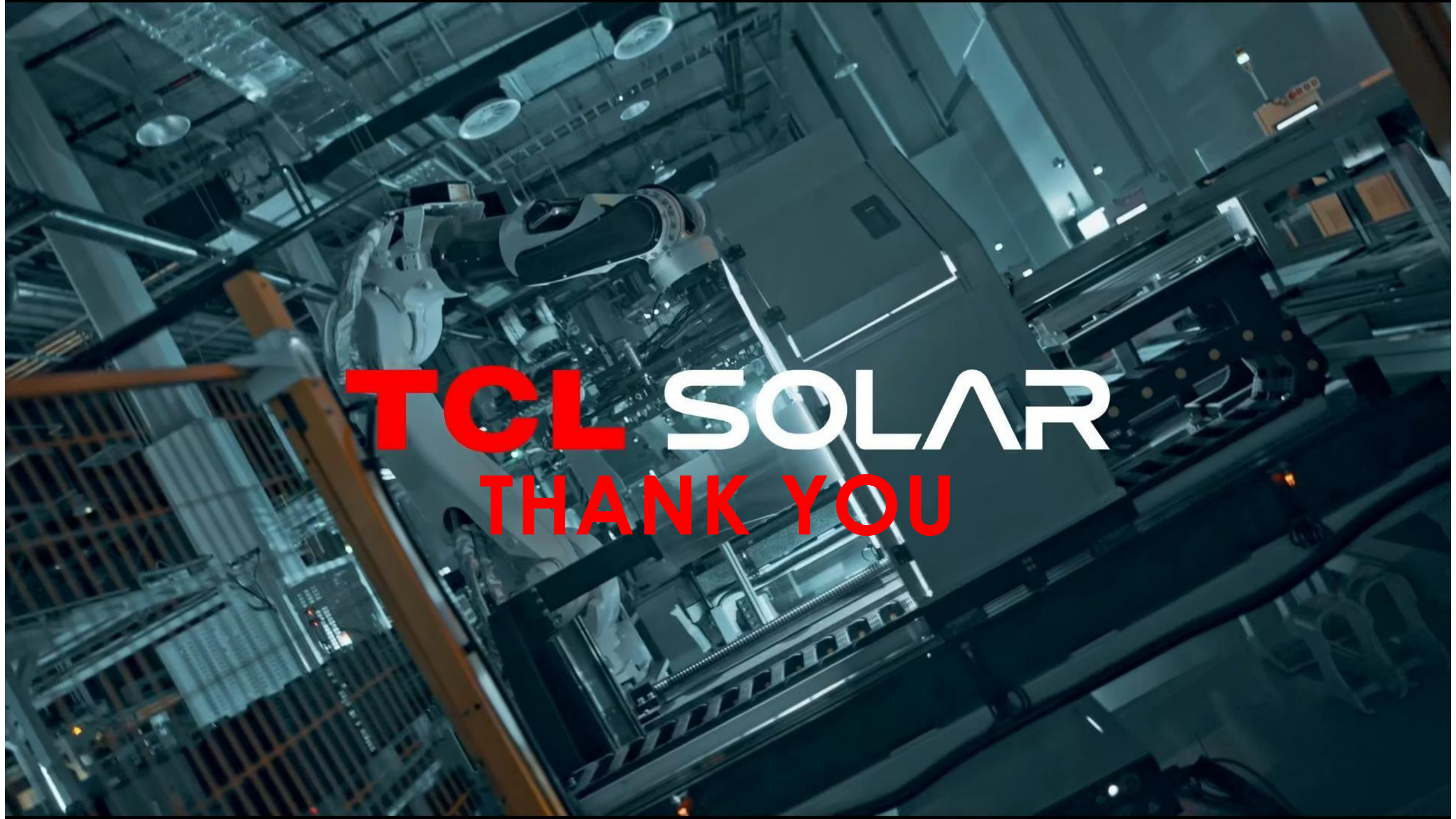
Photovoltaic Smart Factory










TCL SOLAR
THANK YOU