

The image features a large-scale solar farm with rows of solar panels stretching into the distance. The sun is low on the horizon, creating a bright, hazy glow and long shadows across the panels. The Trina Solar logo is centered in the upper half of the image, and the slogan 'Power Beyond Solar' is centered below it.

Trina solar

Power Beyond Solar

Our Business



PV Products

- Solar PV Modules
- Mounting Structures
- Energy Storage



System Solutions

- Utility projects
- Distributed PV systems



Smart Energy

- Energy IoT

Trinasolar

Trina Storage



Milestones



1997

Trina Solar was founded

2006

Listed on NYSE
Operations and sales in Europe kick off

2012

Established State Key Laboratory of PV Science & Technology

2015

Started the layout for storage business
Started Thailand factory operations

2017

Developed low-carbon footprint modules for the French market
Launched Million-Roof Plan in China

2020

Listed on SSE STAR market, Shanghai
Launched 600W+ ultra-high power new modules, setting benchmark for PV 6.0 era.

2022

130GW+ Cumulative PV module Shipments

2002

Built 40 off-grid solar power stations in Tibet, China

2008

Built Trina Solar PV Industry Park

2014

Became world's largest PV module supplier
Fully compliant with European WEEE recycling directive

2016

Started Vietnam factory operations

2018

Acquired Spanish tracker company Nclave
Launched energy IoT brand Trina IoT

2021

50GW+ company-wide production capacity
40GW+ production capacity for industry-leading 210 Vertex module

Globalization



130GW+
Cumulative
Shipments



9.5 GW+
Grid-connected



150+
Worldwide Customers



23,000+
Employees

Strong footprint in Europe



>33 Gigawatt volume

Shipments to date



9 Regional Offices

Close to the market



200+ Employees

Europe is our home turf



100+ Distributors

Local network partners



20+ Countries

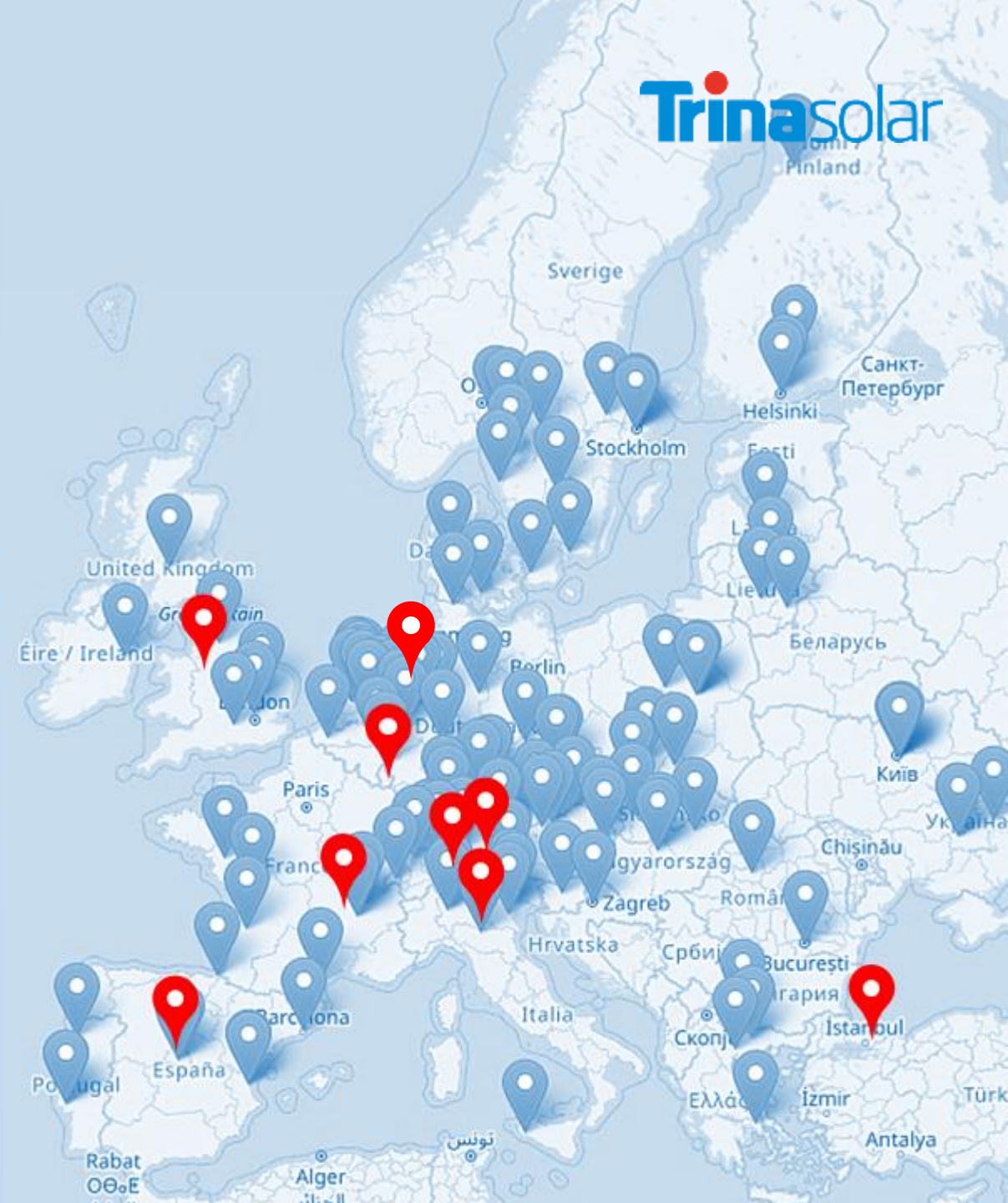
Active utility-scale customers



Trina Solar Regional Office



Distribution Partner





2022 Operating Revenue

USD 12.6 billion

Y-o-Y growth

83.41% ▲



2022 Net Profit attributable to the
listed company's shareholders

USD 547.13 million

Y-o-Y growth

95.64% ▲

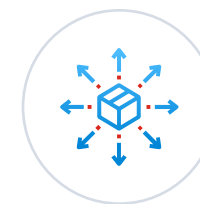


Total Assets

USD 12.92 billion

Up from last year-end

40.91% ▲



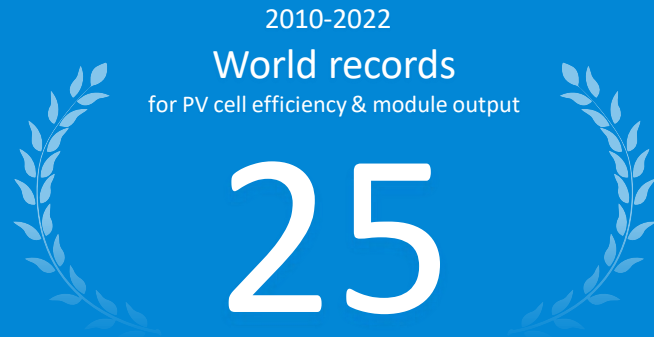
2022 Total Module Shipments

43.09GW

Y-o-Y growth

73.8% ▲

Leadership in Research & Development



Formulation of Standards

Industry standards led on or participated in
110

Standards issued
100

First to propose and publish
IEC international standards



Laboratory Accreditations

World's first
TÜV Rheinland IEC certified witness test laboratory

World's first U.S.-accredited
UL 61730 witness test laboratory



R&D Results

Number of patent applications
2300+

Proportion of invention patents
Near 50%

Cumulative R&D investment
RMB 12+ billion (2010-2021)

New Leading Technology



210 Vertex ultra-high-power modules

- ▶ 210mm silicon wafer
- ▶ Multi-busbar (MBB)
- ▶ Innovative arrangement and non-destructive cutting mode
- ▶ High-density packing

N-type i-TOPCon large-scale mass production

N-type i-TOPCon cell mass production
average efficiency up to 25.3%

Applied in China's first batch of
Technology Leader Bases

New world record for
Frontside efficiency 25.5%



Advanced HJT technology reserves

Actual efficiency of HJT cells in mass production
24.6% or above

Working on
863 national projects

TüV certification of HJT products
awarded in first half of 2021



Vertex 210 Ultra-High-Power Modules



Ultra-high-power modules
significantly reduce project costs

65+ GW

Vertex 210 series
Shipped till Q1-2023

No. 1

World's largest
210mm module production scale



Wide product range for all applications

Compared with same-class products on the market

0.01-0.04 USD/W

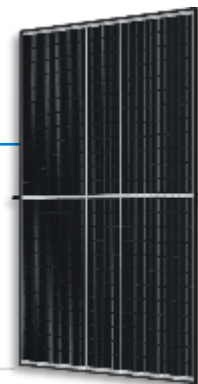


1%-3%



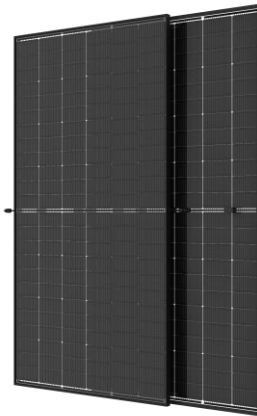
Lower system costs

Lower LCOE



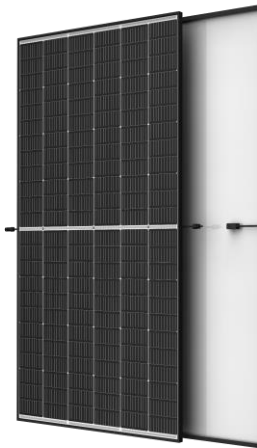
435W+

Vertex S



440W+

Vertex S+



450W+

Vertex S+



605W+

Vertex N



700W+

Vertex N

2023 production capacity*

| module

95 GW+

| cell

75 GW+

Suqian

Yancheng

Changzhou

Thailand & Vietnam

Yiwu

Stringent Quality Control

Design quality assurance

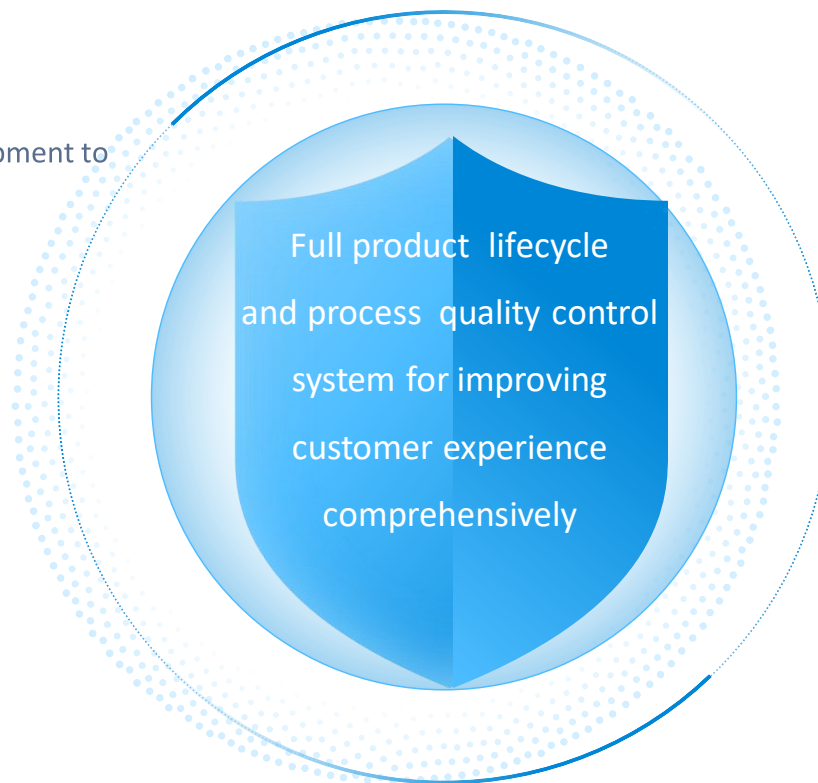
- UL/IEC/International standards for differentiated markets
- Built-in reliability measures for new product development and design
- Strengthened performance reliability evaluation standards
- Strict change management from product development to mass production

Incoming material quality consistency assurance

- High-quality supplier development
- Strict incoming material quality control
- Periodical material reliability inspection
- Critical material management and control

Strict manufacturing process control

- High-standard process capability
- Strict shipment quality control
- Periodical production line inspection



Customer service

- Support for improving customer satisfaction before during and after signing warranty agreement

Reliability assurance

- Material/engineering change implementation monitoring
- Periodical material reliability inspection and testing
 - Internally strengthened reliability assessment
 - Research, discussion and strict evaluation by authoritative third-party

World-class testing laboratory

- Over 200 testing items, witness lab qualification: TÜV Rheinland
- US (UL), Canadian Standards Association (CSA), TÜV NORD, TÜV SÜD, China General Certification (CGC)

Brand Reputation



Boston Consulting Group
Global Tech Challenger
Top 100



Global New Energy
Company Top 500



United Nations BlueSky
Award for
Leading Technology



China's Green Factory



China Industry Award



National Technological
Invention Award



World's Most Bankable
Module Brand



China's Private Company
Top 500



China's Manufacturing
Industry Top 500



Hurun China
Top 500



World IoT Convention Top
500



PV Module
Reliability Scorecard
Top Performer



Top 100 Innovator
For Energy Transit



Future-Proof Power for All

Full Sustainability Report



100% Renewable Energy use

by 2030
in global manufacturing & operations

CO₂ emissions reduced by

24.7% per MW modules*

Integrated Energy Consumption
reduced by

20.3% per MW modules*

Water consumption reduced by

17.8% per MW modules*


Nitrogen Oxide (NO_x) reduced by*

58.7%

Trina Solar officially joined the global Science
Based Targets initiative (SBTi)



Support the global 1.5°C target limit

**BUSINESS
AMBIITION FOR 1.5°C** 



1st Zero Carbon Factory in the industry

Certified by TiGroup for 2022



*2022 vs. 2021

Building a Carbon-free Energy System

TrinaSolar



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Solar Energy for All