

LONGi

**CUSTOMER
DRIVEN
VALUE
CREATION**

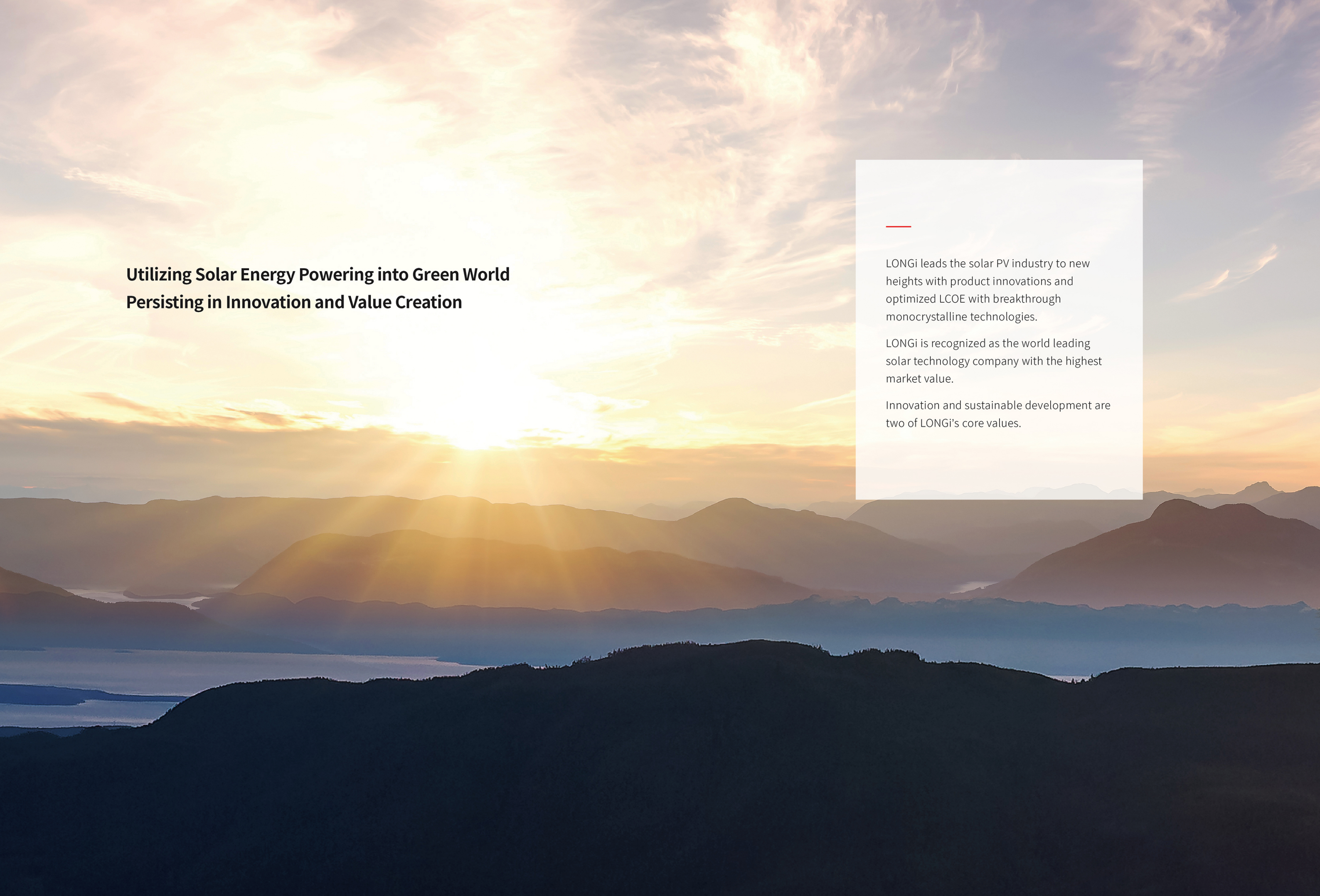
FOR FULL SCENARIO ENERGY TRANSFORMATION
The World Leading Solar Technology Company

2022.05

LONGi

LONGi Solar Technology Co., Ltd.

www.longi.com



**Utilizing Solar Energy Powering into Green World
Persisting in Innovation and Value Creation**

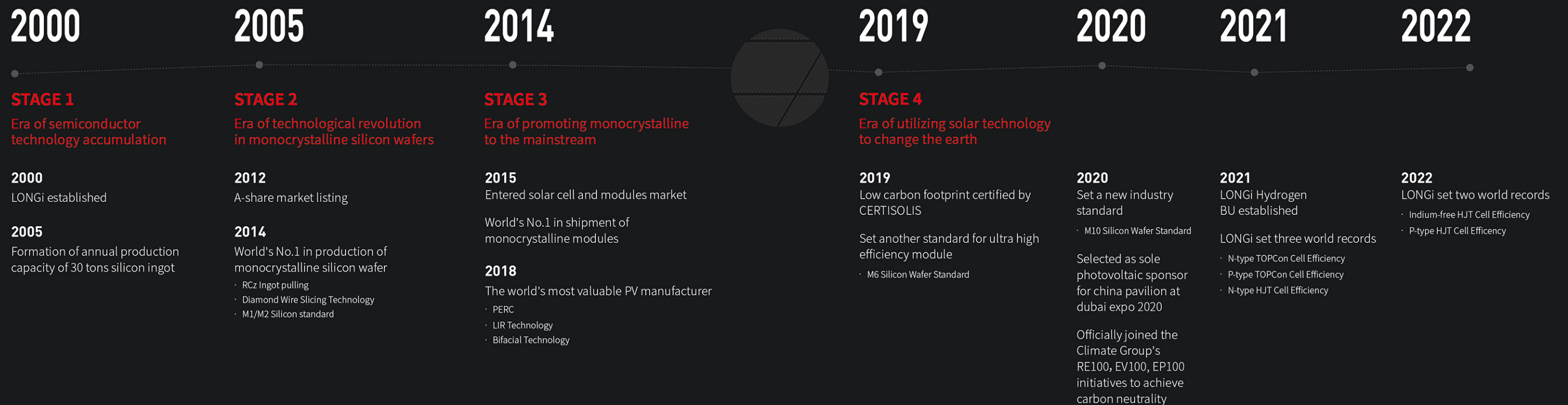
LONGi leads the solar PV industry to new heights with product innovations and optimized LCOE with breakthrough monocrystalline technologies.

LONGi is recognized as the world leading solar technology company with the highest market value.

Innovation and sustainable development are two of LONGi's core values.

Steadfast and Reliable

Each Milestone Has Become A Key Force to Promote the Development of the Industry



Y2021

Operating Income	Net Profit	R&D Investment	Total Asset	Global Employees
\$12.694B	\$1.425B	\$689.1M	\$15.329B	60000+

*Notes: The financial figures are based on the exchange rate at the end of the reporting period.



50 Smartest Companies in China 2019



Forbes Global 2000

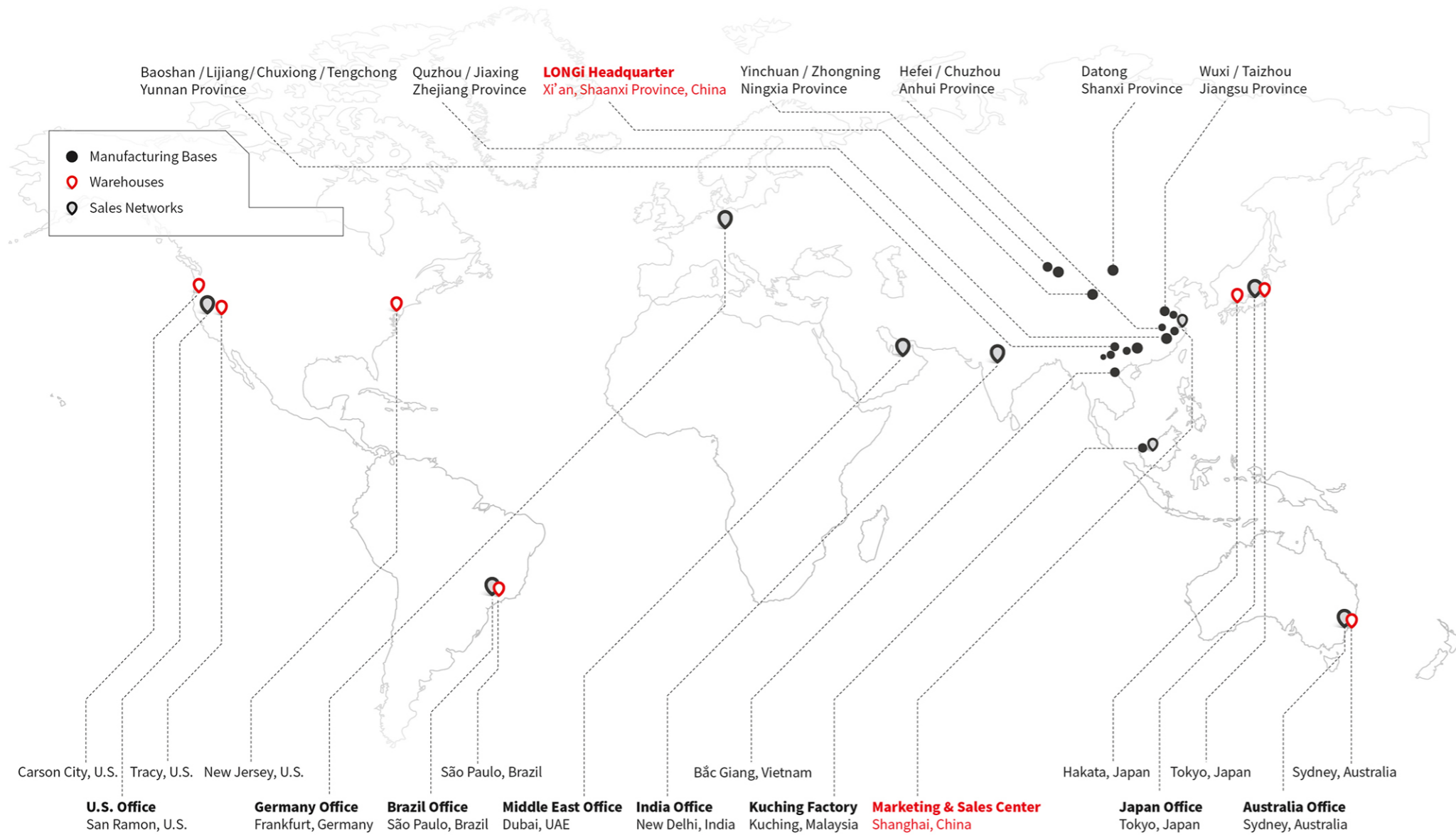


Fortune China 500



Goldman Sachs New China Nifty 50

The World Leading Mono Silicon Wafer Manufacturer Leading Capacity and Shipment



70.01 GW+ → Wafer Shipment (2021)

105 GW → Wafer Capacity (2021)

* LONGi took the industry lead in standardizing wafer size and achieving 100% diamond wire cutting of mono silicon wafer.

38.52 GW → Module Shipment (2021)

* In 2021, the company's global sales performance, market share and brand influence ranked it 1st in the world, with its total shipment volume of domestic and exported modules exceeding 2nd place by more than 10GW.

60 GW → Module Capacity (2021)

LONGi has consistently maintained industry leading ability to mitigate risk and adapt to market changes and, as part of operations, the company prioritizes corporate financial health and stability, with its asset-liability ratio at a low level compared to other global PV manufacturers.

TIER 1

Tier 1 PV Module Manufacturer

**Source: BNEF 1Q 2022 Global PV Market Outlook*

100%

100% Bankable PV Module Brand

**Source: BNEF PV Module & Inverter Bankability 2021*

AAA

PV Module Tech Bankability Rating

**Source: PV ModuleTech Bankability Quarterly Report*

We Embrace Innovations with Our Global Customers

85+ countries
Global Footprint

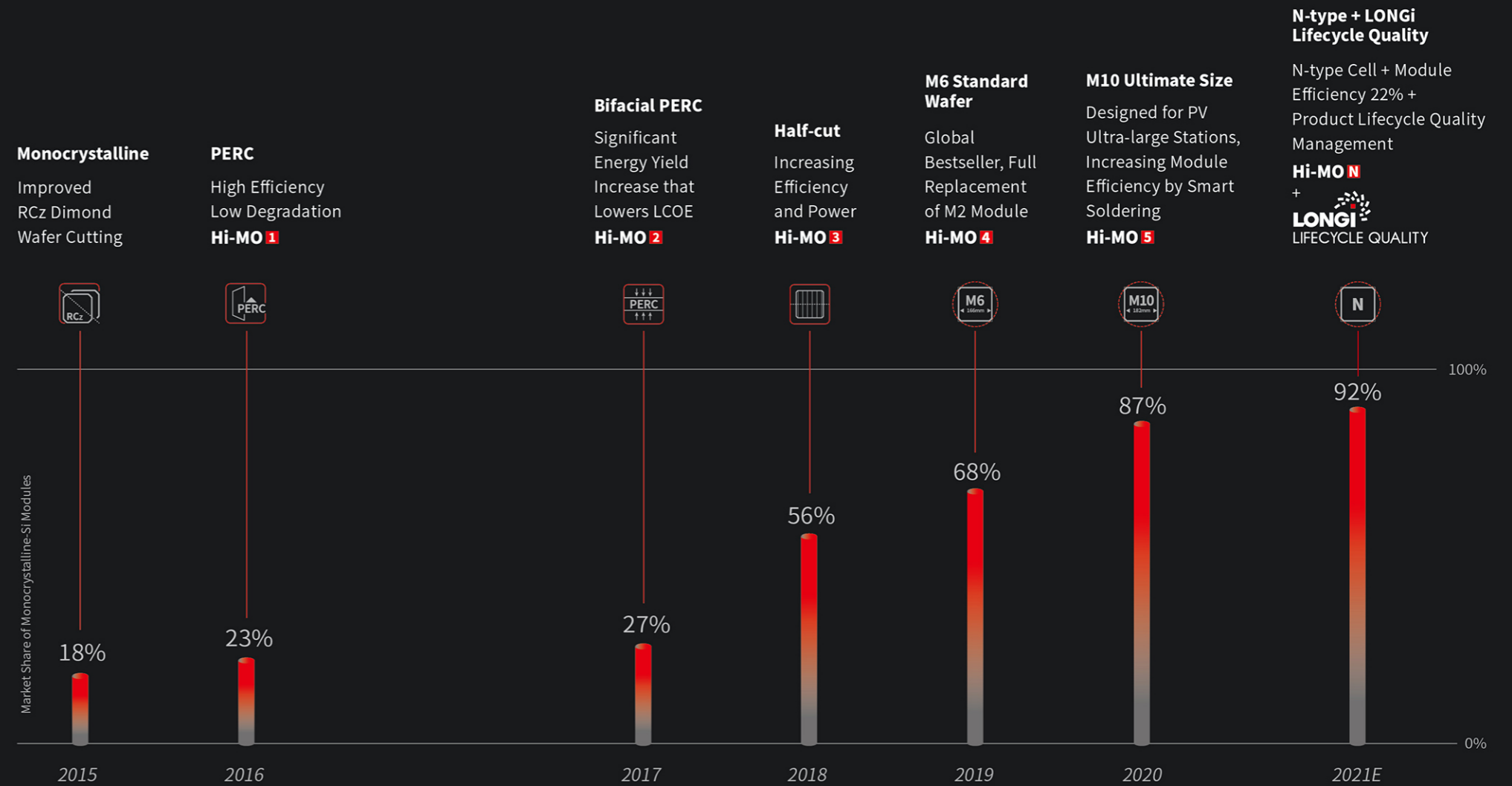


5000+
Global Customers



Technology Leadership

LONGi Innovation: The Benchmark For The Entire Industry



Continuous Technology Innovations
on Open Platforms

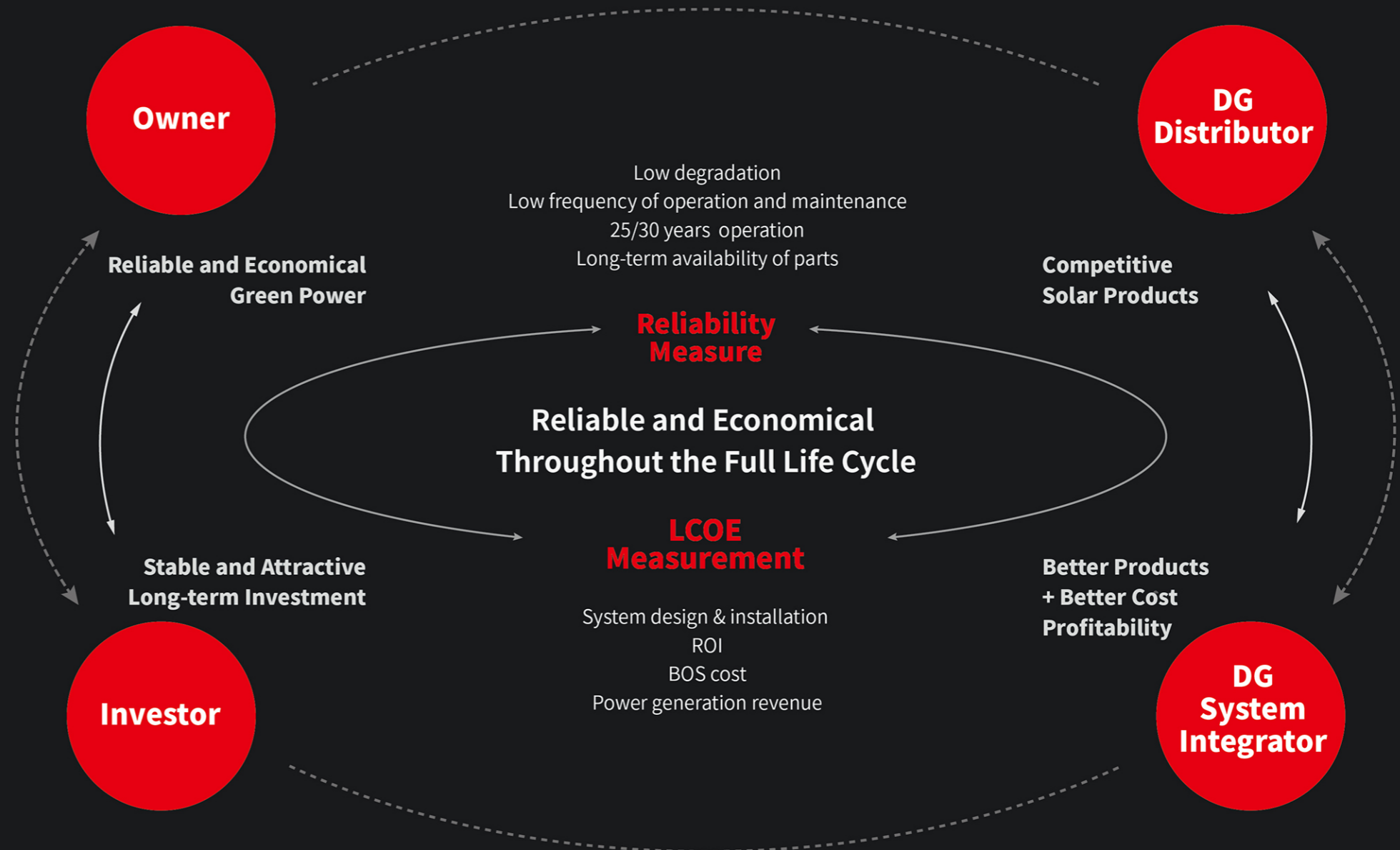
\$689.1M

2021 R&D Investment

5.43%

Proportion of Operating Income Invested in R&D

Customer Driven Value Creation



LONGi Module Design and Planning

Production and Technology with Highest Customer Value

High Optical Utilization

- Bifacial power generation
- Innovative optical structure
- interconnection materials

Low Degradation

- LID, LeTID
- PID

Reasonable Electrical Design

- Current density and open circuit voltage

Stable Supply Chain Guarantee

- Glass, wire box

High Encapsulation Density

- High power, high efficiency

Transportation Compatibility

- Handling, packaging and transportation

Design Consideration



LONGi Hi-MO Series Unlock More Application Scenarios

Hi-MO 4 Higher Power, Lower LCOE

- Backside power generation gain · Good electrical performance under shaded conditions
- Resistant to hot spots · Optimized for high temperature and high radiation environments

Hi-MO 4m Maximize Power Density and Flexibility

- M6 gallium doped silicon wafer · Standard size, flexible applications
- Symmetric design, aesthetic outlook

Hi-MO 5 Delivering True Value

- M10 wafer with gallium-doped technology · P-mono PERC cell technology
- Half-cut cell with multi-busbars

Hi-MO 5m New Choice for Rooftop Solar System

- M10 gallium-doped wafer · Compatible with most standard mounting systems
- Excellent energy generation under low light

Hi-MO N Propelling the Transformation with N-type Energy

- HPC cell technology · Optimal module size · Smart soldering without cracks

Applications



Residential

Suitable for Various Rooftops
Maximize Installation Capacity

Hi-MO 4m 60c/66c Hi-MO 5m 54c



C&I

For Whole Scenarios

Hi-MO 4 4m 66c/72c Hi-MO 5m 54c



Ultra-large Power Plant

Best LCOE

Hi-MO 5 N 72c

Product Quality and Performance Guarantee

Design ←

- Established models of optics, electricity, mechanics and heat
- Combines theories with experimental results and historical experience
- Comprehensive analysis of product value based on application scenarios

Material ←

- Specific tests based on material properties
 - Suppliers with high financial health
 - Thresher reliability test

Plan ←

- Product and Material Standard
- Ensure the continuity of production and the versatility of materials



→ Reliability Tests

- Advanced lab recognized by the third party
- Passed the internal thresher reliability test
- Excellent performance in the test of third party organizations

→ Manufacturing

- Highly automated production lines
- Quality assurance (Manufacturing bases, headquarters, marketing)

→ Outdoor Power Generation

- The power generation performance and reliability are verified by theory and demonstration
- Joint demonstration with authoritative third party institutions and customers

Professional Reliability Assessment Methods

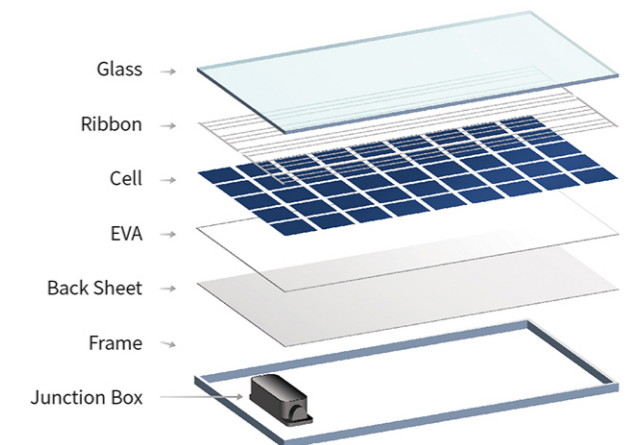
Based on the research results of well-known research agency standards and third-party institutions in the industry, LONGi has established a variety of differentiated reliability testing methods to evaluate product and material reliability more quickly and effectively.

- **Highly Accelerated Thermal Cycling (HATC)**
- **DH + UV Aging**
- **Cell Metal Corrosion Test**



LONGi Standardized BOM

LONGi is committed to the standardization of materials. Materials meeting the high standards LONGi are unified as LONGi brand, which further improve the consistency of manufacturing process and product quality.



The Third-party Evaluation of Product Quality & Performance

Efficiency Records and Awards

TÜV Rheinland All Quality Matters



2017, 2018
Energy Yield Simulation Winner (Mono Group)

2019, 2020, 2021
"PV Module Outdoor Power Generation" Winner

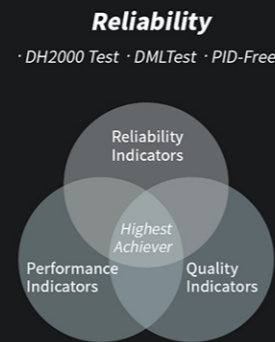
- Low light power generation performance
- Power temperature coefficient
- Incident angle effect

The RETC High Achiever

The U.S. Renewable Energy Testing Center (RETC), a leading engineering service and certification testing provider for PV and renewable energy, named LONGi a "2021 High Achiever" in its PV Module Index Report for the third consecutive year.



In RETC's "Photovoltaic Module Index Report" (PVMi) for 2020, LONGi's results in the three key indicators of reliability, performance and quality identified it as only company to achieve an award. LONGi also became the only manufacturer to perform well in all 8 individual tests, underlining the high reliability and excellent performance of its modules.



Top Performer in PVEL's PV Module Reliability Scorecard 6 Times

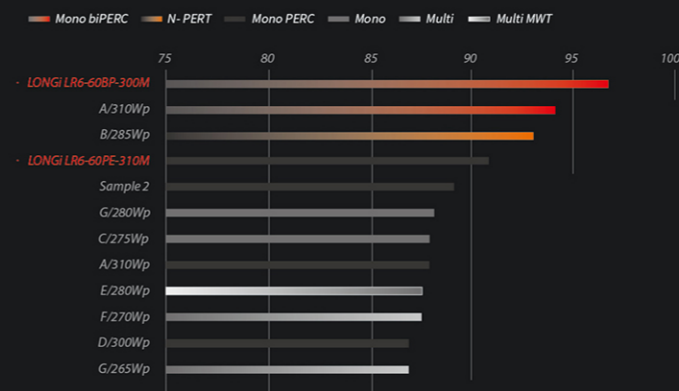


600cycles + 2000hours + 192hours
Thermal Cycling Damp Heat PID Test

1000cycles + 50cycles + 30cycles
Dynamic Mechanical Load Thermal Cycling Humidity Freeze

Excellent Performance in Energy Yield Test Conducted by pv magazine

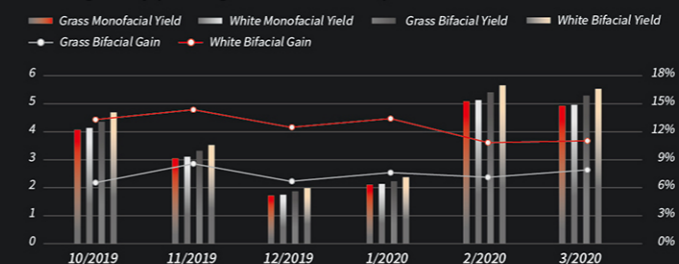
Monthly Power Generation 2018.11~2021.01(Wh/Wp)



- Organized by the German-based pv magazine Group, in cooperation with CEA in the United States and GSolar in China, sampled by CEA.
- LONGi modules were ranked top in the outdoor category.

PVEL Bifacial Module Outdoor Test

LONGi Bifacial Module PVEL Outdoor Test Result (Average daily power generation Wh/kWp)



Manufacturer	A	B	C	LONGi
Grass-Reflectivity 21%	5.57%	6.57%	7.23%	7.46%
White-Reflectivity 45%	8.28%	8.78%	10.73%	11.44%

- PVEL laboratory, in Davis, California, studied the reliability and power generation of bifacial modules of different manufacturers, and found them to be significantly different.
- In fact, it shows that the power generation gain of LONGi bifacial modules is obviously better than others.

Source: Bifacial bake-off: comparing technologies and manufactures, July 2020

The Future of LONGi Sustainable Development Roadmap

With “Solar for Solar”, LONGi officially joined the Global Initiatives RE100, EV100, EP100, and will keep building towards achieving 100% in clean energy consumption.

LONGi always had sustainable management as a core criteria for business decision-making, including continuous investments in innovation and research, advocating an open corporate culture and promoting scientific institutional research. At the same time, LONGi has been leading continuous changes in electric power and energy, promoting the sustainable development of the planet and mankind.

It is LONGi’s vision and roadmap that Earth will be completely green and self-sustainable in the first half of this century.

RE100 **EV100** **EP100**

Using clean energy in manufacturing



Solar becomes the main electricity source for electric vehicles



Solar + desalinated seawater irrigates the deserts, creating oasis

Solar + hydrogen energy, applied to the ocean and air transportation and reducing smelting



2020

2025

2030

2035

2040

2045

2050



Solar + pumped-hydro energy storage, starts using solar in manufacturing



Renewable energy accelerates the replacement of fossil energy



100% renewable energy. Earth enters a carbon-negative mode