

LONGi

**CUSTOMER
DRIVEN
VALUE
CREATION**

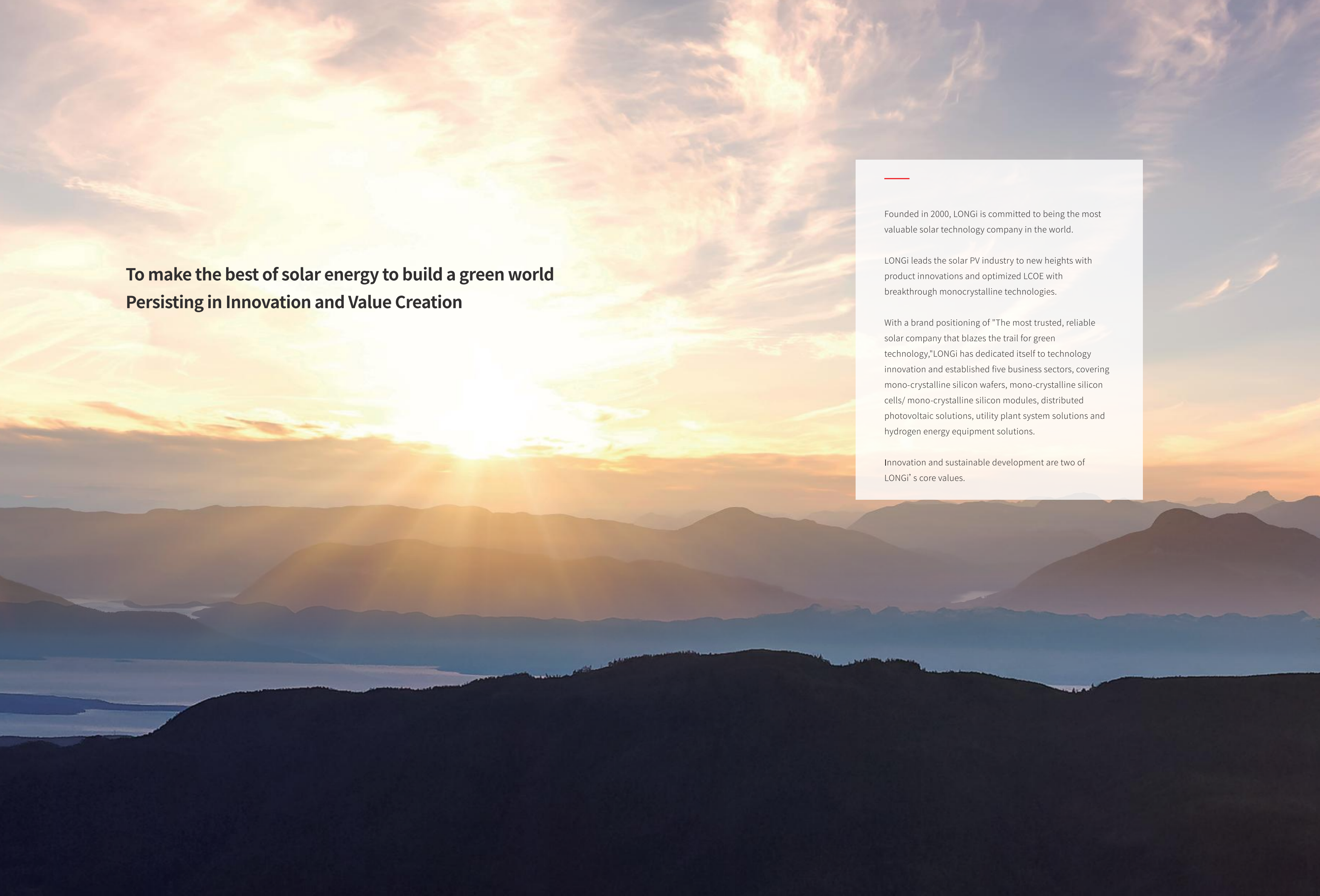
FOR FULL SCENARIO ENERGY TRANSFORMATION
The World Leading Solar Technology Company

2023.06

LONGi

LONGi Solar Technology Co., Ltd.

www.longi.com



**To make the best of solar energy to build a green world
Persisting in Innovation and Value Creation**

Founded in 2000, LONGi is committed to being the most valuable solar technology company in the world.

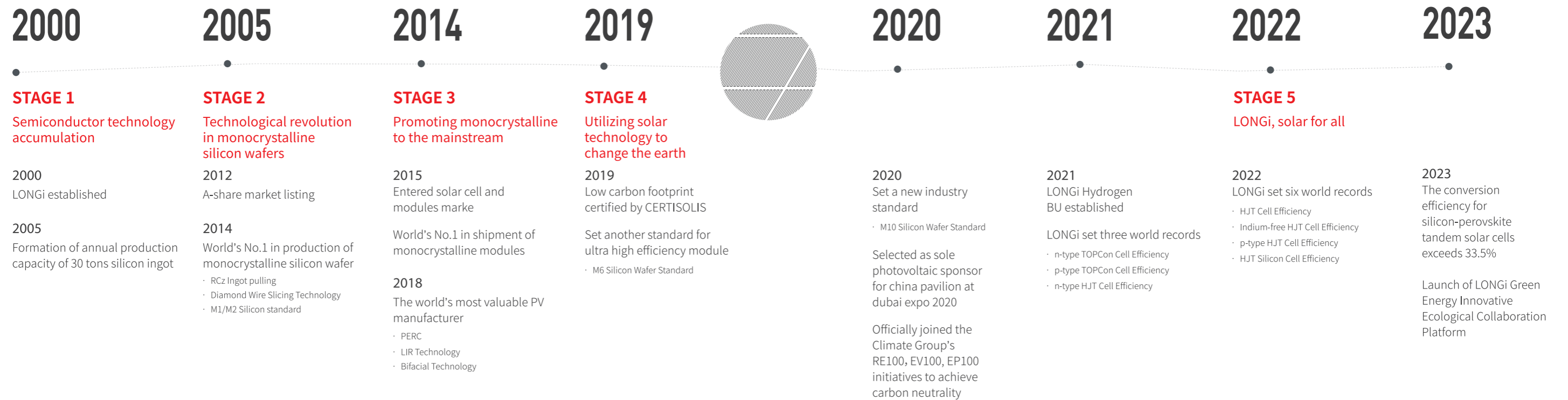
LONGi leads the solar PV industry to new heights with product innovations and optimized LCOE with breakthrough monocrystalline technologies.

With a brand positioning of "The most trusted, reliable solar company that blazes the trail for green technology," LONGi has dedicated itself to technology innovation and established five business sectors, covering mono-crystalline silicon wafers, mono-crystalline silicon cells/ mono-crystalline silicon modules, distributed photovoltaic solutions, utility plant system solutions and hydrogen energy equipment solutions.

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



Y2022

Operating Income

\$18.85B

Net Profit Attributable to Shareholders

\$2.16B

R&D Investment

\$1,044M

Global Employees

60000+



2022 China Top 500 Manufacturers



Forbes Global 2000



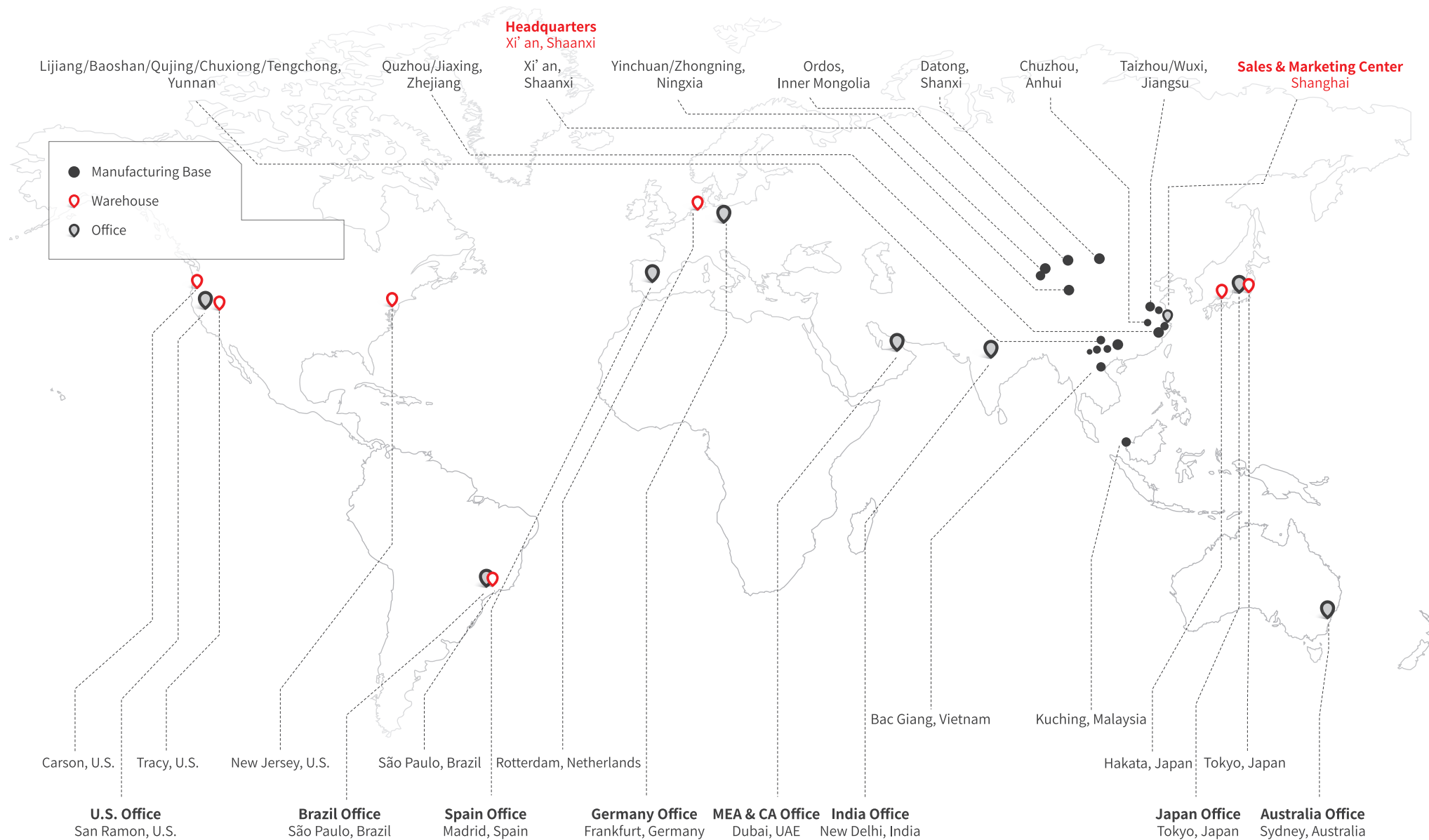
Fortune China 500



Global Top 500 New Energy Enterprises

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

The World Leading Mono Silicon Wafer Manufacturer Leading Capacity and Shipment



85.06GW → Wafer Shipment (2022)

133GW → Wafer Capacity (2022)

* LONGI took the industry lead in standardizing wafer size and achieving 100% diamond wire cutting of mono silicon wafer.
 * LONGI has held the top position in global monocrystalline silicon wafer shipments for 9 consecutive years.

46.76GW → Module Shipment (2022)

* In 2020, 2021 and 2022, LONGI ranked world No.1 in three consecutive years in terms of shipment volume and market share.

85GW → Module Capacity (2022)

140GW+ → Total Module Shipment

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 Q1 2023 Global PV Market Outlook*

100%

100% Bankable PV Module Brand

**Source: BNEF PV Market Module & Inverter Bankability 2022*

AAA

PV Module Tech Bankability Rating

**Source: PV Module Tech Bankability Quarterly Report Q1 2023*

We Embrace Innovations with Our Global Customers

150+

Countries and Regions



5000+

Global Customers and Partners



Technology Leadership

**LONGi Innovation:
The Benchmark
For The Entire Industry**



Monocrystalline

Improved RCz Diamond Wafer Cutting

2015



Hi-MO 1

PERC

High Efficiency
Low Degradation

2016



Hi-MO 2

Bifacial PERC

Significant Energy Yield Increase that Lowers LCOE

2017



Hi-MO 3

Half-cut

Increasing Efficiency and Power

2018



Hi-MO 4

M6 Standard Wafer

Global Bestseller, Full Replacement of M2 Module

2019



Hi-MO 5

M10 Ultimate Size

Designed for PV Ultra-large Stations, Increasing Module Efficiency by Smart Soldering

2020



LONGi
LIFECYCLE QUALITY
陆基产品生命周期标准

LONGi Lifecycle Quality

Product Lifecycle Quality Management

2021



Hi-MO 6

High-efficiency HPBC Cell Technology

Designed exclusively for Global DG Customers

2022



Hi-MO 7

New Generation Module HPDC Cell Technology

Innovative Bifacial Dual-junction Cell Technology, Bringing Higher Value to Customers

2023

**Continuous Technology Innovations
on Open Platforms**

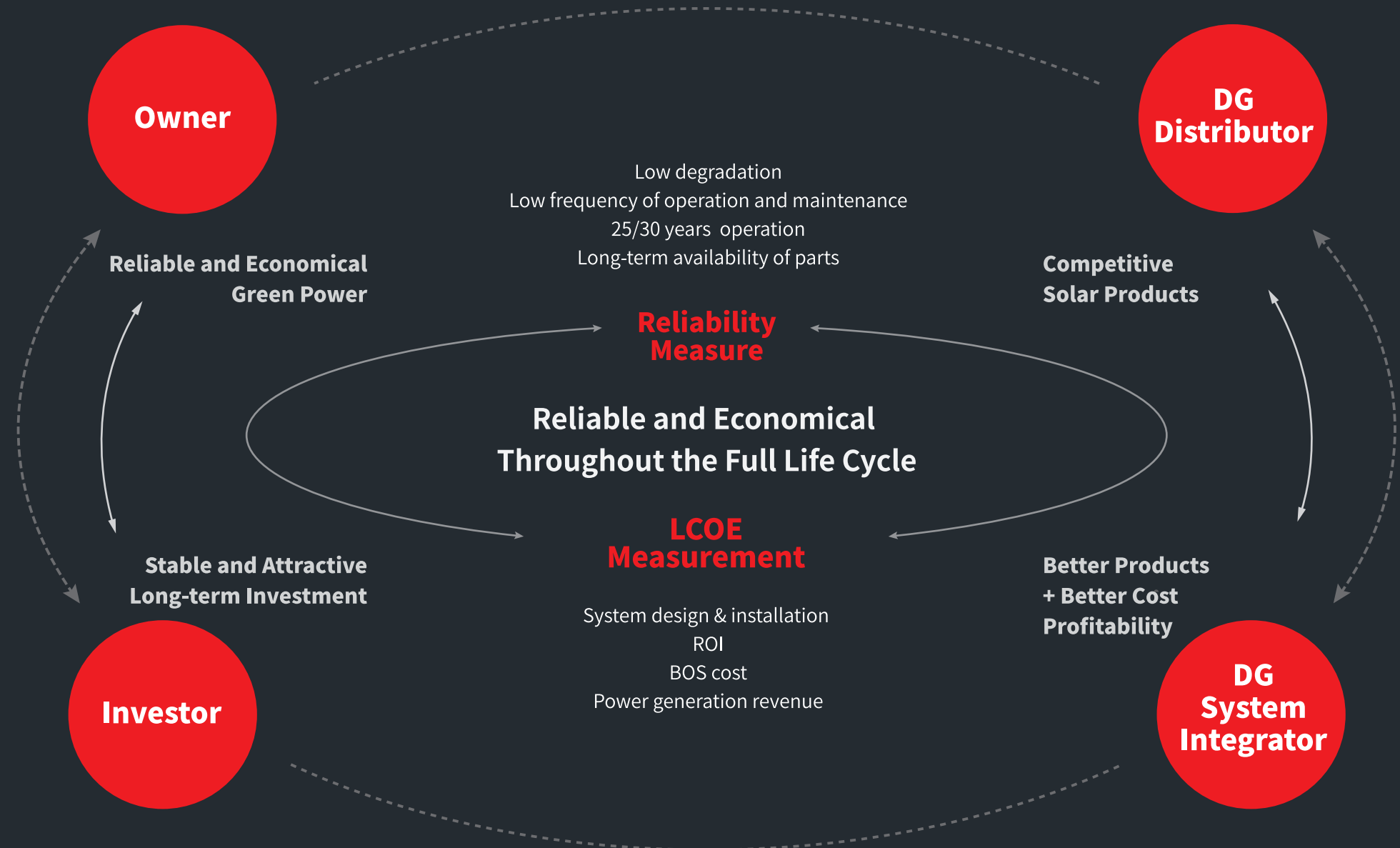
\$1,044M

2022 R&D Investment

5.54%

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 interconnection materials
- . Zero shielding on front

Low Degradation

- . LID , LeTID , PID
- . Gallium doped, hydrogen passivation
- . HPBC,HPDC cell technology

Prudent Electrical Design

- . Current: wire loss, safety
- . Voltage: maximum design capacity

Stable Supply Chain Guarantee

- . Glass, junction box, etc.

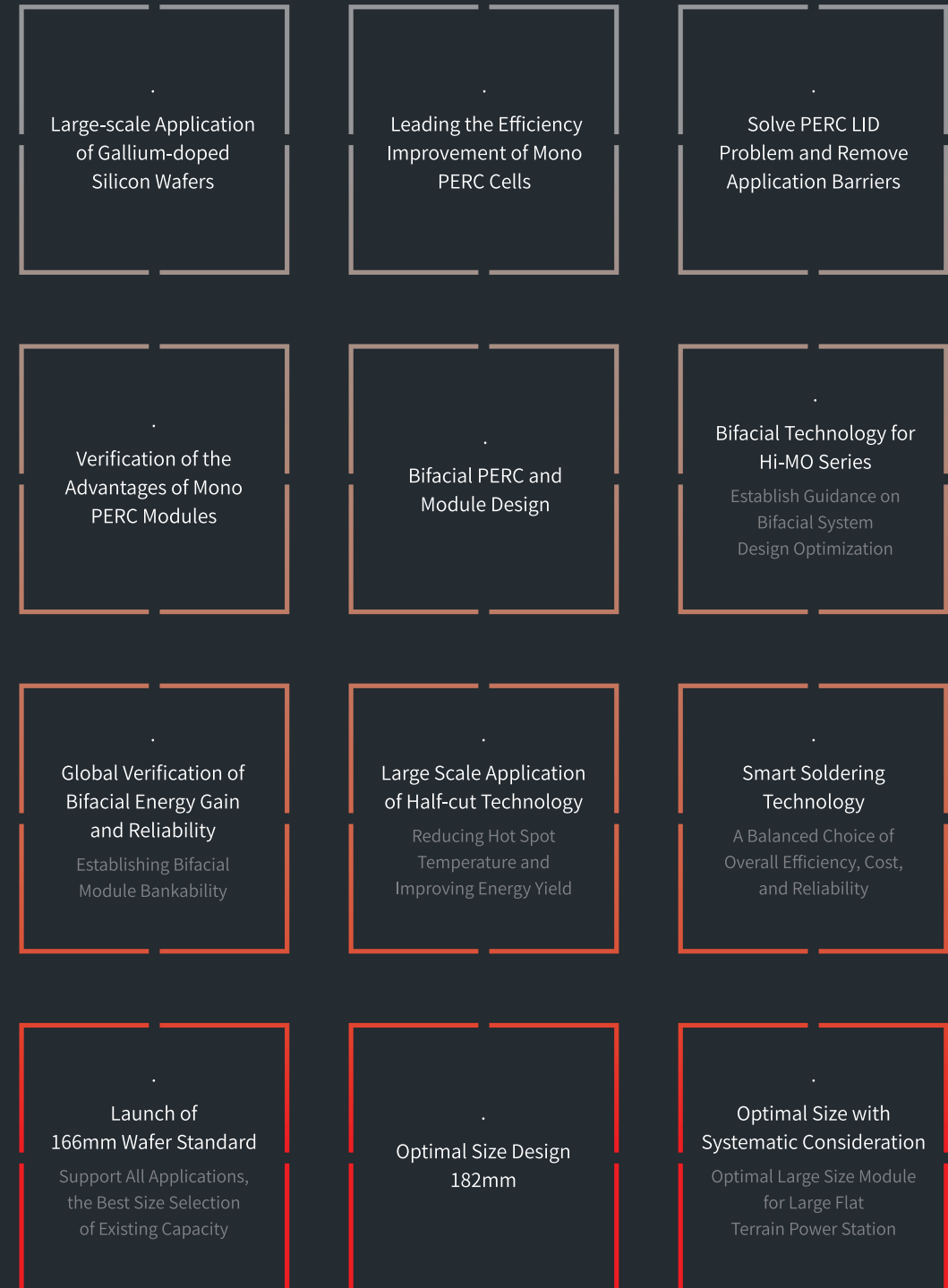
High Encapsulation Density

- . High power output& high efficiency

High Logistic Compatibility

- . Handling, packaging and transportation

Design Logic



LONGi Hi-MO Series Unlock More Application Scenarios

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 5_m New Choice for Rooftop Solar System

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

Hi-MO 6 High-efficiency HPBC Cell Technology

- M10 gallium-doped wafer
- Aesthetic · Efficient · Reliable · Intelligent

Hi-MO 7 HPDC Cell Technology

Featuring High Power Generation Performance and High Reliability

- M10 (182mm) N-type monocrystalline silicon wafer · Better bifacial power generation performance
- Product life-cycle reliability assurance

Applications



Residential

Suitable for Various Rooftops
Maximize Installation Capacity

Hi-MO 5 Hi-MO 6 Hi-MO 7



C&I

For Whole Scenarios

Hi-MO 5 Hi-MO 6 Hi-MO 7



Small Ground Power Plants

Small Ground Power Plants PV Solutions

Hi-MO 7



Ultra-large Power Plant

Best LCOE

Hi-MO 5 Hi-MO 7

Product Quality and Performance Guarantee



Professional Reliability Assessment Methods

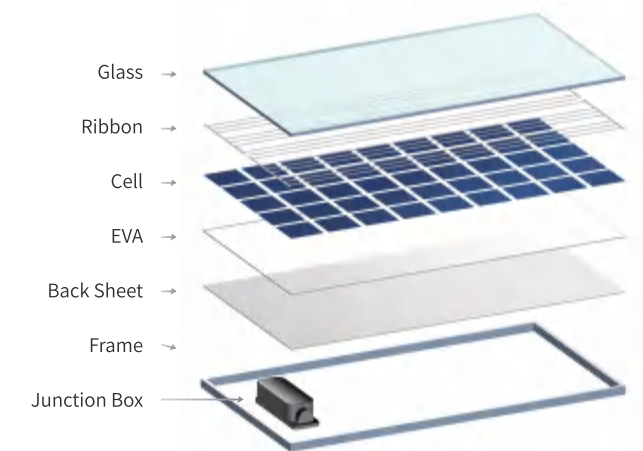
Based on the research results of well-known research agency standards and third-party institutions in the industry, LONGi has established a variety of differentiated reliability testing methods to evaluate product and material reliability more quickly and effectively.

- Highly Accelerated Thermal Cycling(HATC)
- DH+UV Aging
- Thermal Cycling (TC) + Ultraviolet (UV) Aging
- Low Irradiance Testing
- Dry Cold + Dry Heat + Damp Freeze Sequence Testing
- UV + TC + HF Sequence Testing
- LeTID Testing
- PID Testing
- Salt Spray and Ammonia Testing
- Hail Testing
- Low-temperature Mechanical Load Performance
- Longi Wind Tunnel Foundation & Ultimate Testing
- Fire Resistance Testing
- ...



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, 2021, 2022
Energy Yield Simulation Winner

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

Low light power generation performance

Power temperature coefficient

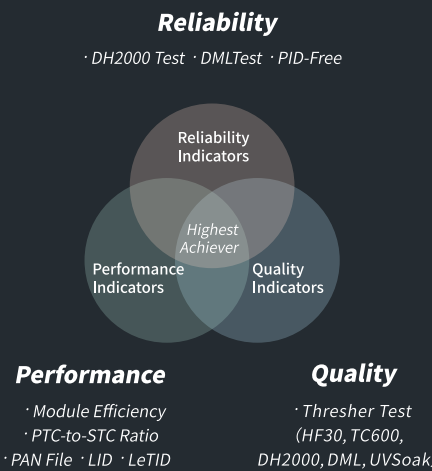
Incident angle effect

RETc High Achiever for 4 Years

LONGi is recognized as a 2022 Top Performer, gaining the High Achiever status in RETc (Renewable Energy Test Center)'s PV Module Index Report for the fourth consecutive year.



Renewable Energy Test Center (RETc) is a leading engineering service and certification testing provider for photovoltaic & renewable energy, who broadly organize test protocols and reported data according to three interrelated and essential disciplines: module quality, performance, and reliability.



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



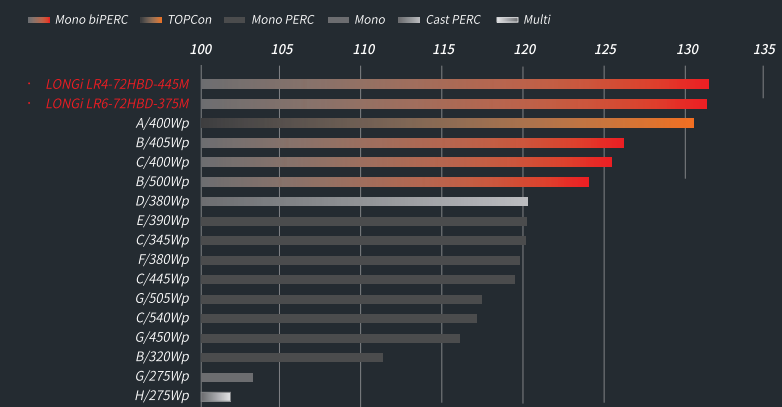
600cycles + 2000hours + 192hours
Thermal Cycling Damp Heat PID Test

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

Excellent Performance in Energy Yield Test Conducted by pv magazine

- 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.

Monthly power generation of 2021.12~2022.9(Wh/Wp)



The Only Module Manufacturer Achieving '2021 Intersolar Award'

The annual Intersolar award is arguably the most authoritative solar photovoltaic award in Europe, based on only the most innovative and disruptive products and technologies in the industry over the year. In terms of impact and price assessment, the winners are all innovators, leading the development of the photovoltaic industry.

- The only module manufacturer achieving 'Intersolar award' Demonstration of LONGi's advanced technology and innovation

2021

Intersolar Award

WINNER

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

Committed to **70%** renewable electricity by 2027.
Committed to **100%** renewable electricity by 2028.

- In 2022, the proportion of green power use reached **47.18%**, and the use of green power will increase by **38.21%** compared with 2021.
- In 2022, the proportion of green power use of Baoshan LONGi has reached **99.09%**, and energy-saving technology improvement projects are steadily progressing.

EV100

Committed to installing charging infrastructure at all production and operational sites by 2030.

- Organized group-wide centralized procurement of charging piles, involving **7** provinces, **13** cities and **23** business sites, and the first charging piles planned for "EV 100" are expected to be put into use in 2023.

EP100

Committed to completing the installment of energy management systems (enms) by 2025 and improving energy efficiency by **35%** compared to the baseline year of 2015.

- By 2022, a total of eight production bases have completed the construction of energy management information system; 1 new production site was added in 2022.
- **66.64%** improvement in overall group-wide energy use efficiency in 2022 compared to 2015
- Construction of 'Zero Carbon Theme Park' in the factory, greening and beautifying the factory, raising the awareness and participation of all employees in green and low carbon



Committed to setting a greenhouse gas (GHG) emission reduction target, aligned with the global 1.5°C temperature increase goal.

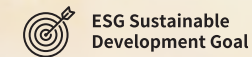
- Group-wide greenhouse gas reduction of **2.01%** compared with 2021
- LONGi launched the 'Supply Chain Green Partner Empowerment Program' and provided carbon empowerment to over **480** suppliers.



LIGHT
Sustainable
Development
Philosophy of LONGi



Lead for the clean energy world



Affordable for all

With the mission of "Making the best of solar energy to build a green world", LONGi promotes energy equity and strives to leverage solar technology to reshape the future of energy and ensure access to solar-powered energy for all.

In 2023, the company set up its sustainable development philosophy, known as LIGHT. Taking into account our development strategy, industry features, national development plan, and the United Nations Sustainable Development Goals, we have established five factors-"Lead", "Innovative", "Green", "Harmonious", and "Trustworthy".



SUSTAINABLE DEVELOPMENT GOALS

