

LONGi Solar Company Presentation



About LONGi

The world's leading solar technology company

LONGi leads the solar PV industry to new heights with product innovations and optimized power-cost ratio with breakthrough monocrystalline technologies. LONGi supplies more than 30GW of high-efficiency solar wafers and modules worldwide yearly, about a quarter of global market demand. LONGi is recognized as the world's most valuable solar technology company with the highest market value. Innovation and sustainable development are two of LONGi's core values.





40000+

Employees



\$242.5 Million

R&D Investment

(5.10% of revenue, Y2019)





\$4.76 Billion

Revenue (Y2019)



\$763.5 Million

Net Profit (Y2019)







Forbes Asia's 200 Best Over A Billion 2019



Fortune Magazine China's Top 500



Goldman Sachs
New China NIFTY 50
("The Only New Energy Enterprise on the list)



Leadership

World's leading capacity of monocrystalline solar products

World's record for P-Type monocrystalline cell and module efficiency. World's largest scale in monocrystalline silicon wafers, monocrystalline modules and bifacial modules deliveries. World's healthiest solar company in financial strength, according to the latest BloombergNEF report. LONGi demonstrates its leadership in the PV industry in energy transformation. LONGi's products fulfilled 15% of new energy installations in the world each year, and is the world's largest supplier of power generation equipment in the PV sector.







Total capacity of monocrystalline silicon wafers, ranked No. 1 worldwide in 2019 Total shipment of monocrystalline cell and modules in 2019 Total shipment of bifacial modules, ranked No. 1 worldwide by 2020.05



Altman-Z Score 3.60, highest of all manufacturers (Bloomberg NEF 1Q-2020 PV Outlook,)



AAA Rating in the new PV ModuleTech Bankability (AAA is currently the highest rating, and LONGI is the only one in this level)



Leadership

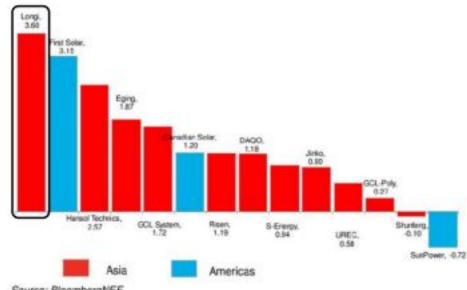
Industry leading financial health

Adhering to the philosophy of stable operation and sustainable development, LONGi has maintained a low asset-liability ratio through the years.

The strong return on asset, good profitability and proven bankability has been validated and recognized by industry authorities.

Firm brand	Armual module capacity, Mit/year	Form: brand	Annual module capacity, W/Cyear
Jirko"	16,000	Waaree*	2,000
Long*	15,000	REC Group*	1,800
JA Solar*	15,000	Neo Solar Pewer/ URE	1,800
Canadian Solar	13,000	HT-SAAE*	1,500
Risen Energy	11,100	Adami Mundra*	1,500
Harwha Q-Cells'	10,700	Vietnam Sunergy (VSUN Solar)*	1,500
Trina Solar*	8,000	Boylet*	1,000
GCL Systems*	7,200	Lightway	1,290
First Solar*	6,200	Vikram Solar*	1,200
Talesan	6,000	Jolywood	1,100
Seraphim*	5,000	Hengdian DMEGC	1,000
Wuxi Suntech*	4,500	Ulica Solar	800
ChintiAstronergy*	4,200	Hansol Technics	690
ZNShine*	3,500	Hyundai	000
Jinneng/ Jinergy	2,700	8-Energy	530
BVD	2,400	Gold Solar	500
SunPower/ Maxeon*	2,400	Recom	500
LG Electronics*	2,000	Helione*	390
Sumec/ Phono Solar	2,000	Sharp	210
		Total	156,630

Figure 5: Altman-Z scores of publically quoted pureplay solar manufacturers, 3Q or 1H 2019









2000~2005

Era: Accumulation of Semiconductor Technology

2000

Established

2005

Formation of annual production capacity of 30 tons silicon ingot

2006~2014

Era: Promoting Monocrystalline Silicon Wafers Technological Innovations

2012

A-share market listing

2014

World's No.1 in production of monocrystalline silicon wafer

- RCz Ingot pulling
- Diamond Wire Slicing Technology
- M1/M2 Silicon standard

History

Propelling the transformation

From its humble beginnings in Y2000, LONGi progressed from the first era of developing expertise in semiconductor technology, to the 2nd era of promoting technological innovations in monocrystalline silicon wafers; then to the 3rd era of promoting monocrystalline to the mainstream and finally to today's new era of using solar energy technology to re-green the earth's ecology. Every of LONGi's successive technological innovations brought about industrial transformations.



2015~2018

Era: Promoting Monocrystalline to the Mainstream

2015

Entered solar cell and module market World's No.1 in shipment of monocrystalline module

2018

The world's most valuable PV manufacturer

- PERC Trend
- LIR Technology
- Bifacial Technology

☐ 2018~Current

Re-Greening Earth's Ecology with Solar Energy Technology

2019

Certified the low carbon footprint by CERTISOLIS

2020

Selected as Sole Photovoltaic Sponsor for China Pavilion at Dubai Expo 2020

Officially joined the Global Initiative RE100

History

Propelling the transformation

With every milestone achieved, LONGi has driven the industry forward, propelling the transformation of the PV industry through innovations and sustainable developments.





Global Reach

Real-time solutions for local markets

Customer satisfaction is one of LONGi's core values. LONGi has photovoltaic manufacturing bases for global scale in production and a worldwide marketing network that provide customers with localized services and support, such as project design, product specifications, conceration planning, business support, logistics and on-site services.



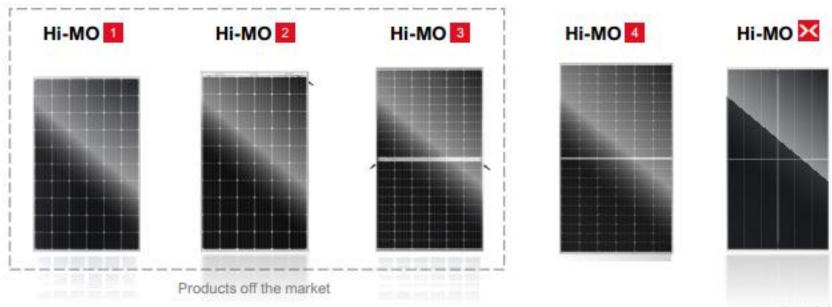


Product Portfolio

Industry Benchmark

From standard monocrystalline, PERC monocrystalline, bifacial, to the Hi-MO 4 modules with the new M6 (166mm) wafer, every of LONGi's new product spearheads the transformation of the PV industry.

Hi-MO Series | Leading the industry with Mono PERC technology





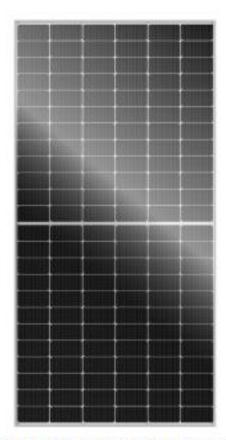
Hi-MO 4

Highest power, lowest LCOE

LONGi Hi-MO 4 series products are monocrystalline bifacial modules using the new M6 (166mm) silicon wafer that delivers the highest power in the modules. LONGi's advanced R&D technology led the upgrade of silicon wafer size from M2 to M6, and ushers in the era of the 166mm standard. LONGi M6 silicon wafer technology enhances the power of the modules, with front side power up to 450W. The results are BOS savings and the lowest LCOE for the photovoltaic project.

Leading the era of M6 standard

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



Hi-MO 4 is available in bifacial and monofacial (Hi-MO 4m) variants





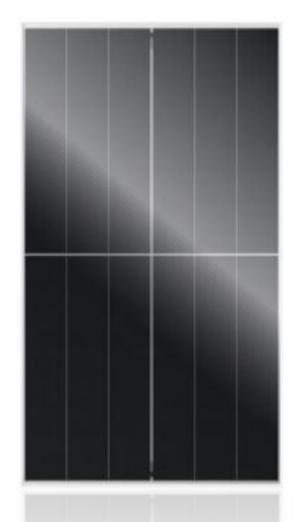
High power and aesthetics, perfect compliment for rooftops

LONGI Hi-MO X integrates the three advantages of high power density, innovative circuit design and sleek appearance. It is a shingled module developed by LONGI over three years of research and development. Hi-MO X strikes a balance between aesthetics and efficiency, and perfectly compliments rooftop applications.

High density singled module

- Module efficiency >20%
- Seamless shingled, super-high density module technology
- PERC monocrystalline, low attenuation cell technology
- Sleek appearance with unique design

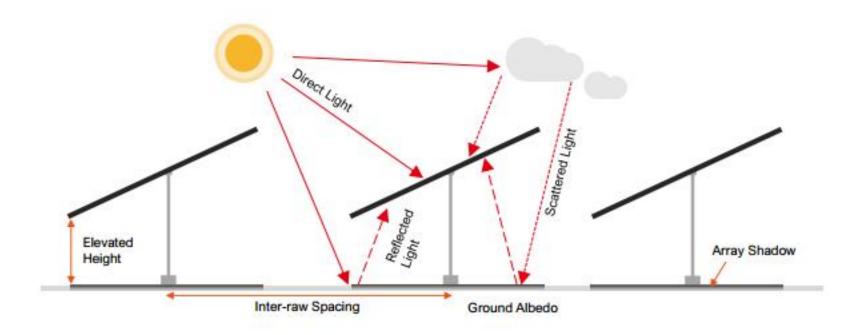




Bifacial Technology for Hi-MO series

No. 1 in bifacial modules worldwide shipments

The highest cost-performance ratio of bifacial modules is achieved with P-type mono PERC technology of which LONGi has led in large-scale commercialization.

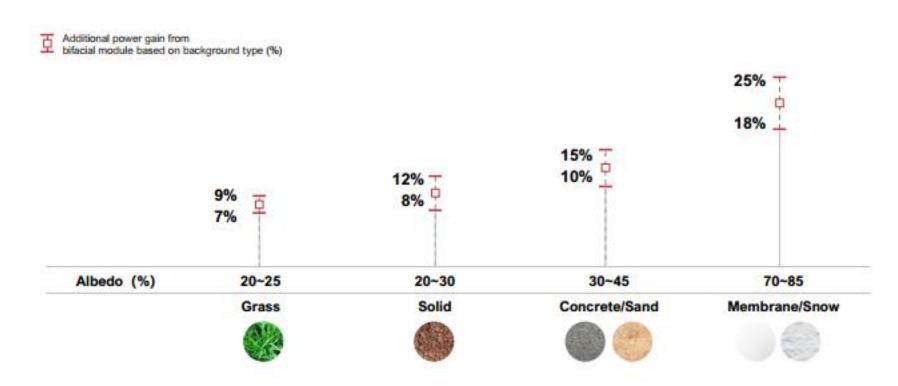




Bifacial Technology for Hi-MO series

No. 1 in bifacial modules worldwide shipments

Bifacial modules' low attenuation, high rearside energy and the additional albedo gain provide the optimal cost-performance ratio, making this one of the standardized product types today. As of May 2020, LONGi's shipments of bifacial PERC modules have exceeded 5.0GW, ranking 1st in the world.





Quality Proven Value

High power generation and excellent reliability throughout the product life cycle are fundamental to LONGi's products. From silicon wafer technology with lowest degradation to module design technology that can resist the harshest environments, LONGi tests product quality rigorously and validate them independently. LONGi works with third-party organizations, set up demonstration power stations around the world and continuously tracks the performance of every product in their lifecycle.

LONGi offers a first-year power warranty of ≥98% for PV modules

LONGi's global demonstration power plants





Quality

Proven Value

In addition to standard tests, LONGi's photovoltaic products demonstrated excellent performance in rigorous stress tests conducted by independent third parties.





Ranked first in TÜV Rheinland PV module power generation simulation for two consecutive years 2016, 2017 First place in TÜVRheinland PV energy simulation in the Monocrystalline group in 2018













First rank in empirical power generation in PV Magazine outdoor power generation evaluation

Highest score in Module manufacturing technology (2019, PV-TECH)

Top Performers for All extended reliability tests



Innovations

Continuous technology innovations on open platforms

LONGi's innovations are not just limited to technology. The company hopes to integrate innovations and create an open, collaborative platform. This is essentially a new way to connect with industrial partners, universities, research institutes, PV start-ups, as well as customers and colleagues. In a ecosystem, all elements come together in active collaboration and interaction that enables us to design innovative solutions to drive the solar-led energy transformation.

Industrial Partner











Research Institute











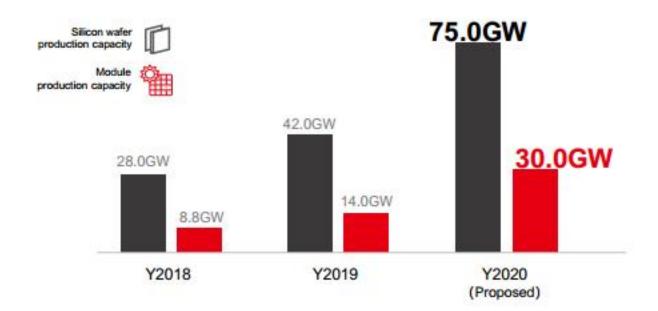




The Future of LONGi

Expansion to meet the needs of energy reform

Solar power has become the largest new source of electricity installed each year since grid parity is achieved in many regions. The trend is accelerating. As the pace of transition from fossil fuels to electricity increases, the world's demand for electric energy is also undergoing a new round of transformation. In order to meet this strong, continuous demand brought by the energy transformation, LONGi has made an ambitious capacity expansion plan, adhering to the business philosophy of "leading, expanding production with advanced technology", where every new production capacity is a new upgrade of product technology.

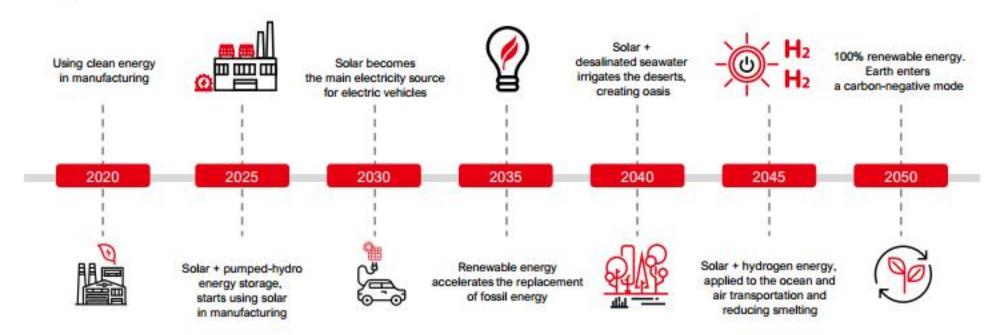




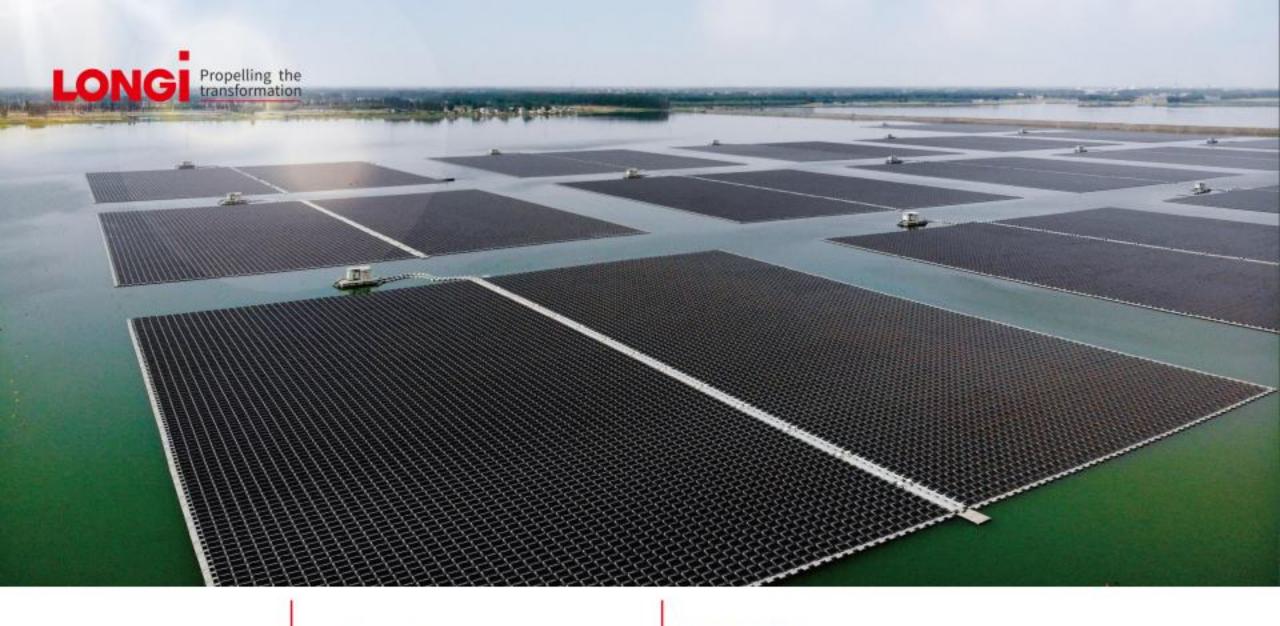
The Future of LONGi

Sustainable Development Strategy

With "Solar for Solar", LONGi is 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.







Project Type Solar Floating System Project Location
Anhui, China





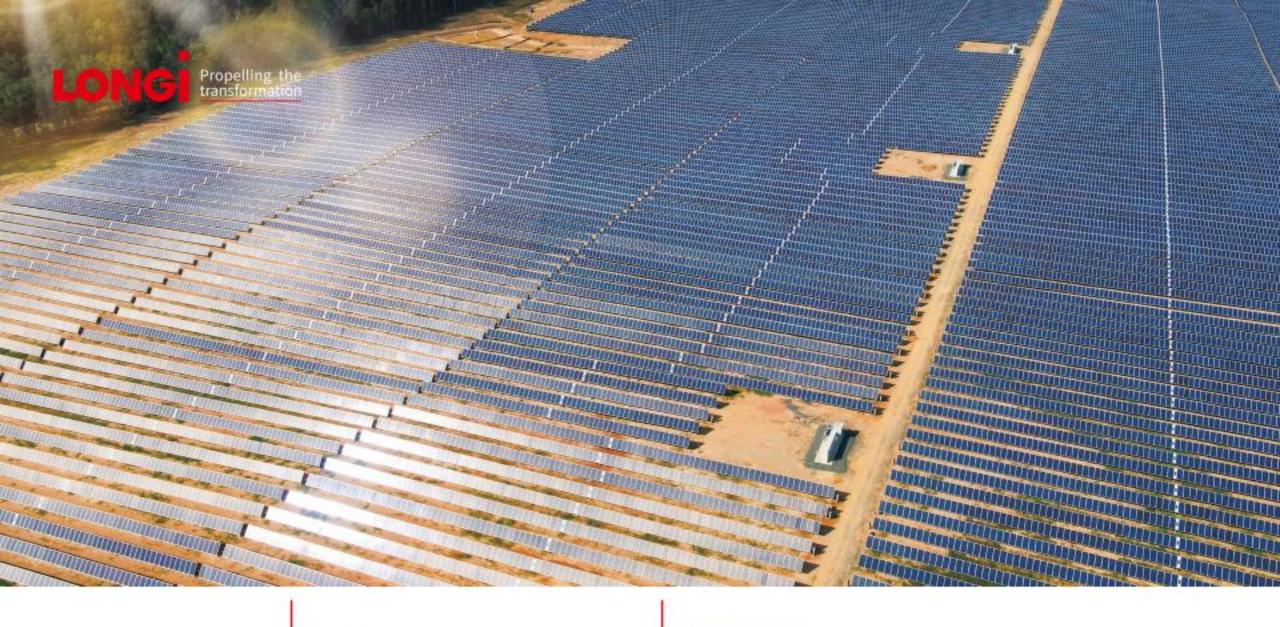
Project Type
Ground-Mounted Solar Plant

Project Location
Ningxia, China



Project Type
Ground-Mounted Solar Plant

Project Location
Shanxi, China



Project Type
Ground-Mounted Solar Plant

Concord, USA



33.6MW

Project Type
Ground-Mounted Solar Plant

Agrestina, Brazil



13.89MW

Project Type
Ground-Mounted Solar Plant

Project Location
Shika Machi, Japan



3.60MW

Project Type
Ground-Mounted Solar Plant

San Felipe, Chile

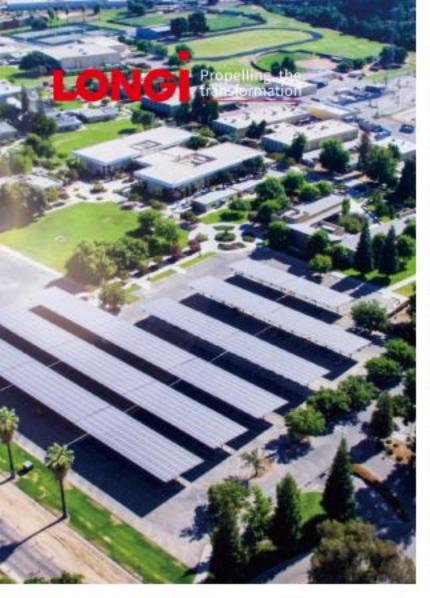




Project Type
Ground-Mounted Solar Plant

Project Location

Karnataka, India







7.50MW

Project Type
Commercial Rooftop

Project Location
California, USA



160kW

Project Type
Commercial Rooftop

Project Location
Hongkong, China



1.26MW

Project Type
Commercial Rooftop

Asan City, Korea



Propelling the transformation.