

6th Renewable & Storage Forum LONGi Hi-M09

November 2024



LONGi



Hi-MO 9

The Beginning of The NEXT Ultimate

 Efficiency up to 24.43%

 HPBC 2.0 Technology

 Uneven Irradiation Tolerance

 30 years of Lower degradation

Old Problems, New Solutions

01 Limited space

—

02 Partial Shading

—

03 Hotspots

—

04 Lifetime reliability

—

Hi-MO 9

LR7-72HYD

625~660M

- Products for utility with optimal power generation through the entire lifecycle
- Performance improvement leads to a more than 6.5% power generation gain
- TaiRay wafer & BC technology enhances high-quality wafer
- Smart manufacturing & LONGi product lifecycle standards deliver exceptional product quality

12 12-year Warranty for Materials and Processing

30 30-year Warranty for Extra Linear Power Output

The LONGi logo is positioned in the upper right corner of the right-hand image. It features the word "LONGi" in a bold, red, sans-serif font, with a small red lightning bolt icon above the letter "i".

LONGi

THE DIAMOND SHINES IN EVERY SETTING
Hi-MO 9 DELIVERS OPTIMAL VALUE EVERYWHERE

6.5 ~ 8.0%

Increased power generation

Sweden

Spain

Saudi Arabia

Note – 30 year power generation compared with TOPCon with the same module dimension at 2382mm x 1134mm, under the condition of same land/water area

PART

1 Limited space

PART ONE



BETTER EFFICIENCY, SUPERIOR POWER

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Hi-MO 9

Up to **24.43%**

660W

TOPCon

23.32%

630W

HJT

23.51%

635W

5.0%+ more

installed capacity

HPBC
2.0

HPBC 2.0 TECHNOLOGY

TaiRay

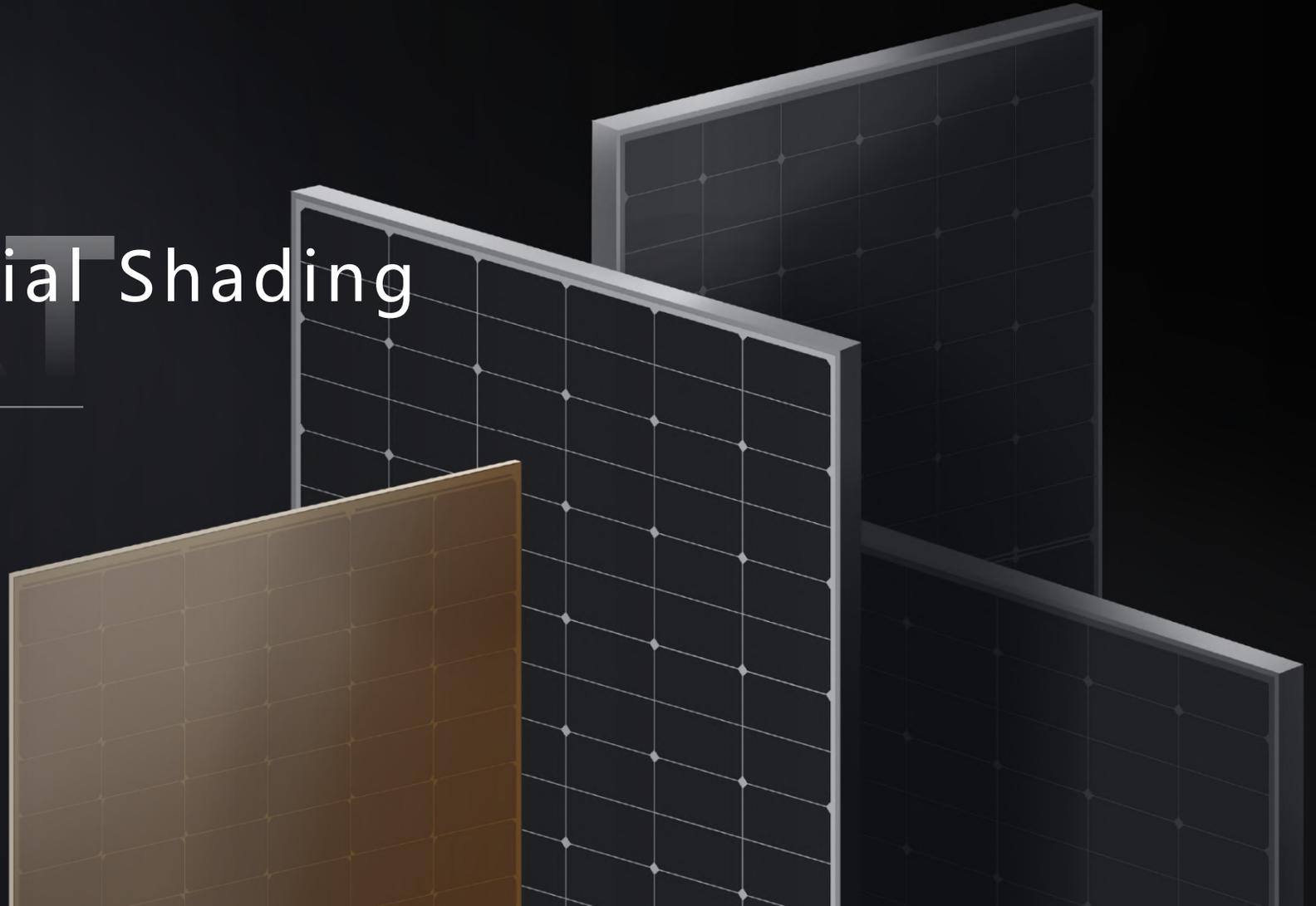
TAIRAY WAFER

Note – compared with 630W TOPCon with the same module dimension at 2382mm x 1134mm, under the condition of same land area

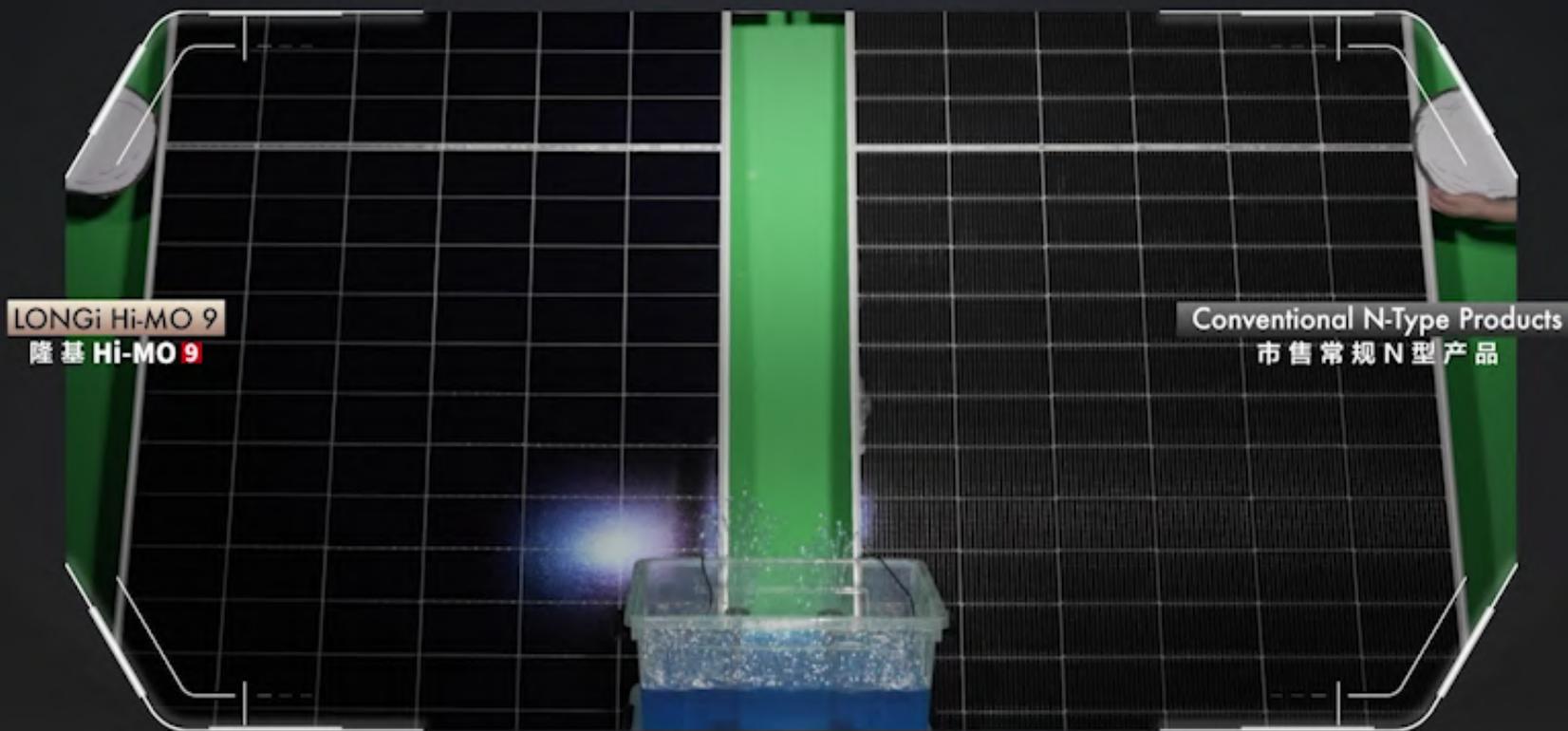
2 PART

Partial Shading

PART TWO



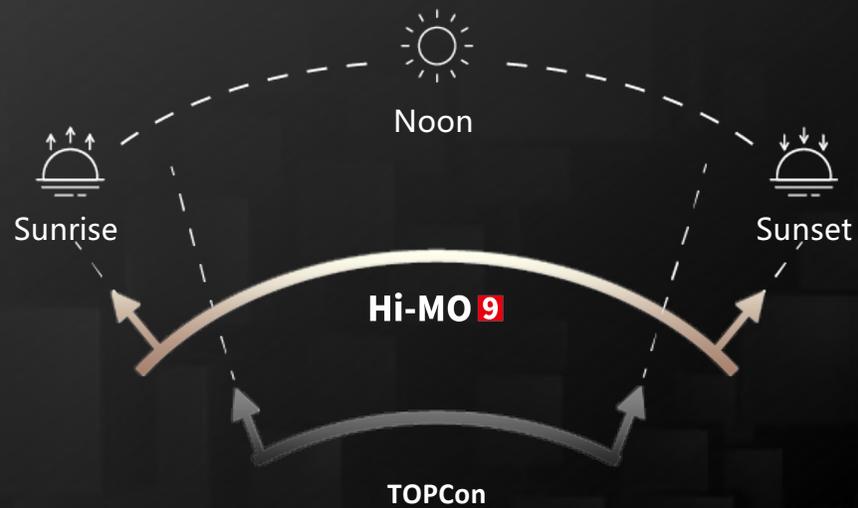
SIGNIFICANT ADVANTAGE IN POWER GENERATION UNDER UNEVEN RADIATION: A COMPARATIVE EXPERIMENTAL



THE BRIGHT DAYTIME IS EXTENDED

LONGI

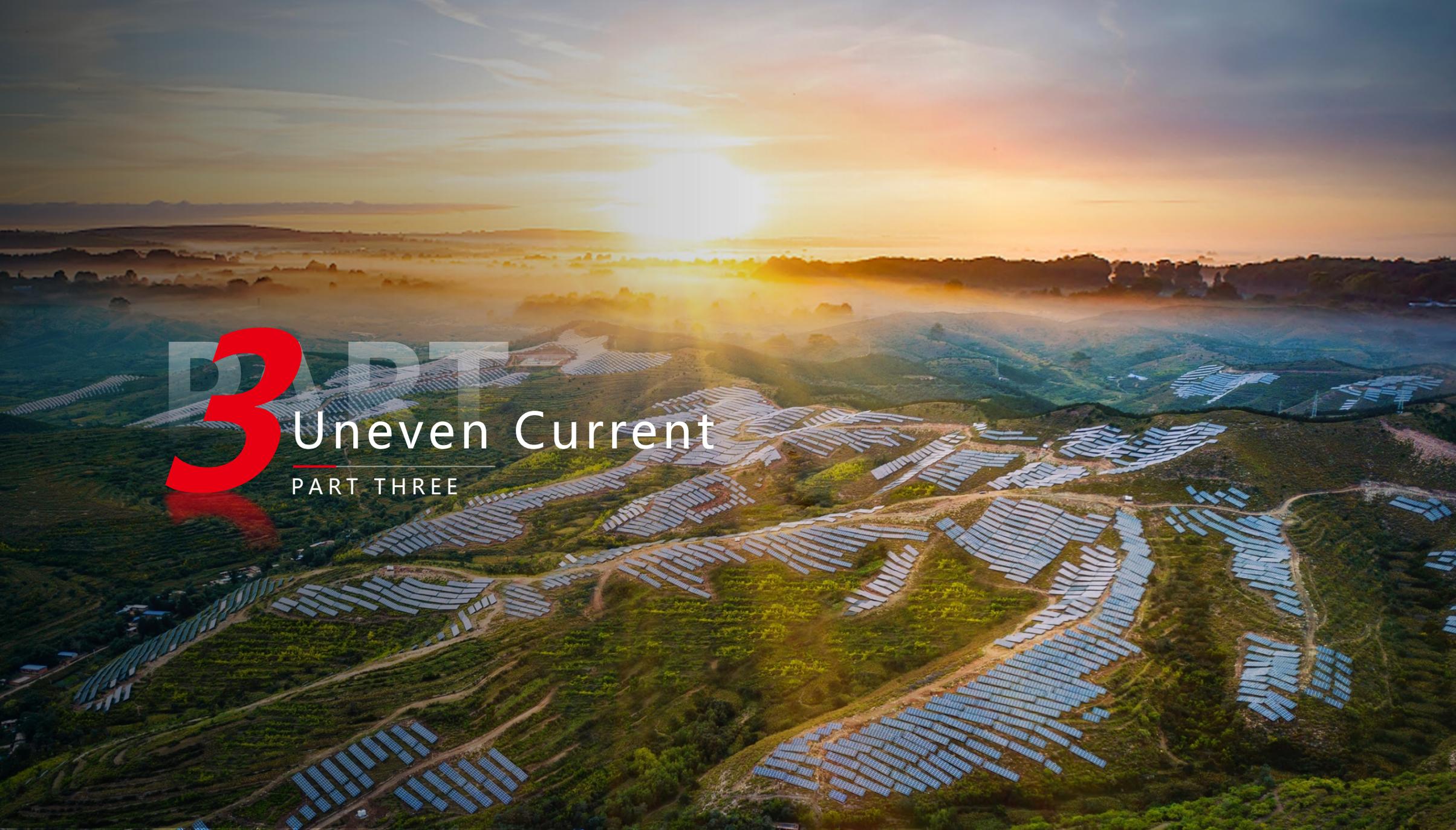
Datetime Power Improvement Under different Irradiance



Longer Power Generation In daytime



Note- – Compared with TOPCon

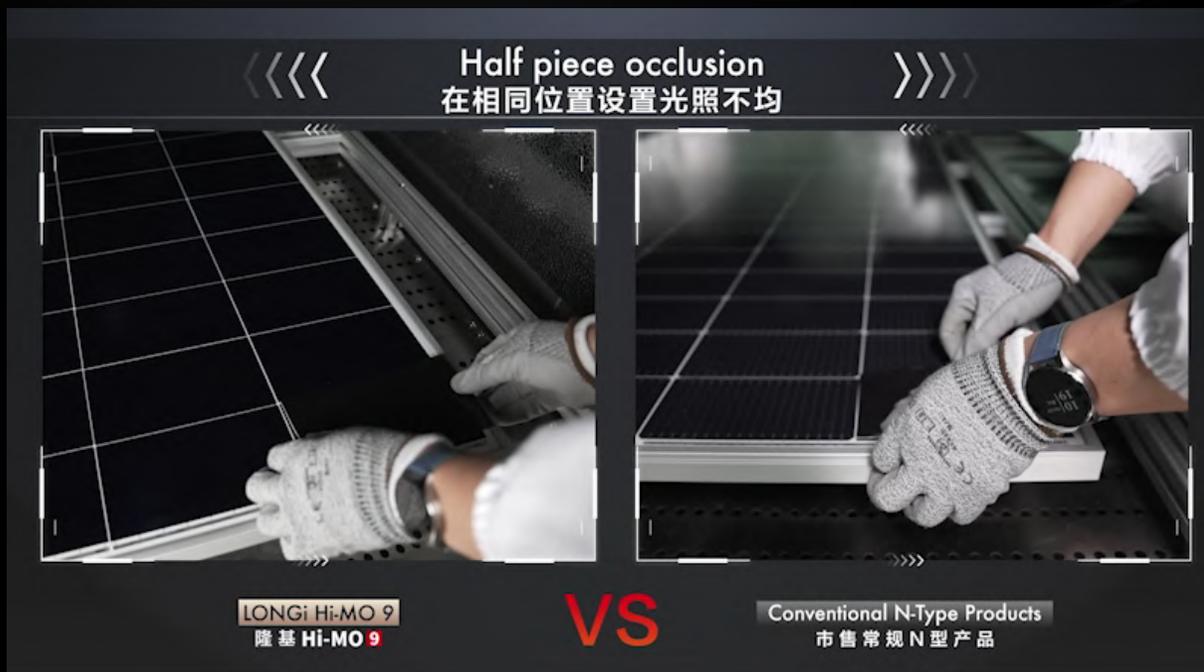
An aerial photograph of a solar farm installed on a hillside. The solar panels are arranged in neat rows, following the contours of the terrain. The sun is low on the horizon, creating a warm, golden glow and casting long shadows. The sky is filled with soft, wispy clouds. The overall scene is peaceful and scenic.

3 PART
Uneven Current
PART THREE

LOWER TEMPERATURE UNDER UNEVEN CURRENT

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Performance Comparison Test



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79°C

TOPCon

Highest temperature

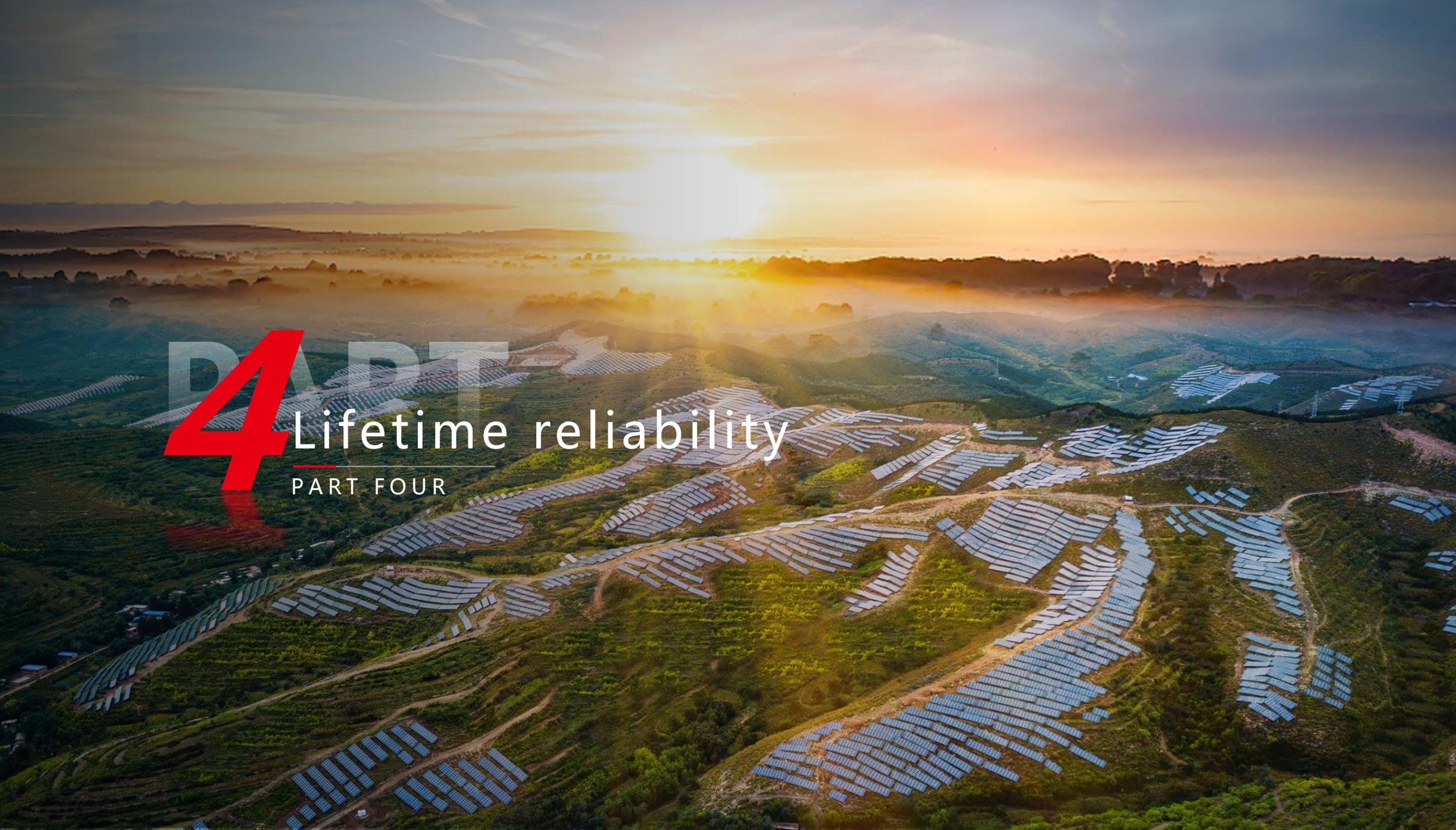
52°C Less

131°C

Highest temperature

Temperature performance under uneven current

Note - Test conditions: After 1 hour of continuous irradiation at an ambient temperature of 37.6°C and an irradiance of 1200W/m²

An aerial photograph of a vast solar farm installed on rolling green hills. The sun is low on the horizon, creating a warm, golden glow and casting long shadows. The solar panels are arranged in neat, parallel rows across the terrain. In the background, a layer of mist or fog hangs over the valley, and the sky is filled with soft, wispy clouds.

4 Lifetime reliability
PART FOUR

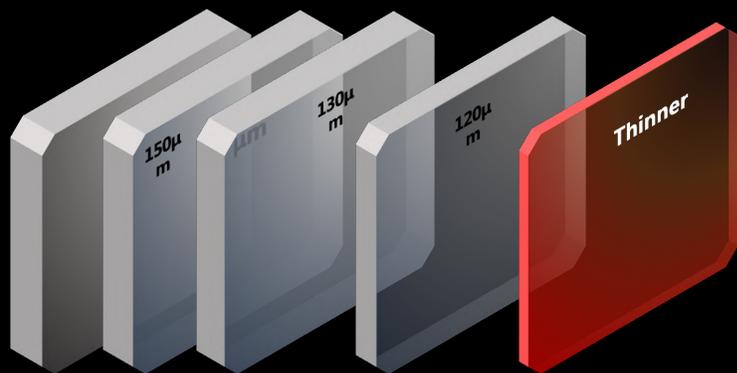
PREMIUM QUALITY BACKED BY THICKER WAFER

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10 μ m thicker

The thinner the wafer, the higher the risks of reliability



Thicker silicon wafers experience less stress and have higher reliability

EXCEPTIONAL STRUCTURE FOR ENDURING STEADFASTNESS

LONGI

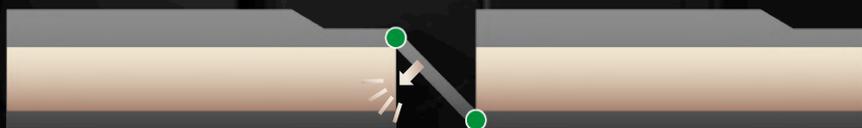
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Less risk of micro cracking
Stress of the cell 26Mpa



Traditional products

Higher risk of micro cracking
Stress of the cell 50Mpa



Busbar Cell

Busbar soldered on the back

50% Less

stress to the cell,
stronger resistance to micro cracking

19% Less

loss from risks related to soldering

The LONGi logo is displayed in a bold, red, sans-serif font in the upper left corner of the advertisement. The background features a dark space scene with a bright blue light source on the right, creating a lens flare effect that frames a central solar panel. The solar panel is tilted and has a grid of cells, with a bright spot of light reflecting off its surface. Several glowing, metallic-looking rings and a thin white line orbit or intersect the panel, suggesting advanced technology or orbital mechanics.

Hi-MO 9

Limitless Horizons, Endless Income

 Efficiency up to 24.43%

 HPBC 2.0 Technology

 Uneven Irradiation Tolerance

 30 years of Lower degradation