# 6th Renewable & Storage Forum
# LONGi Hi-MO9

November 2024


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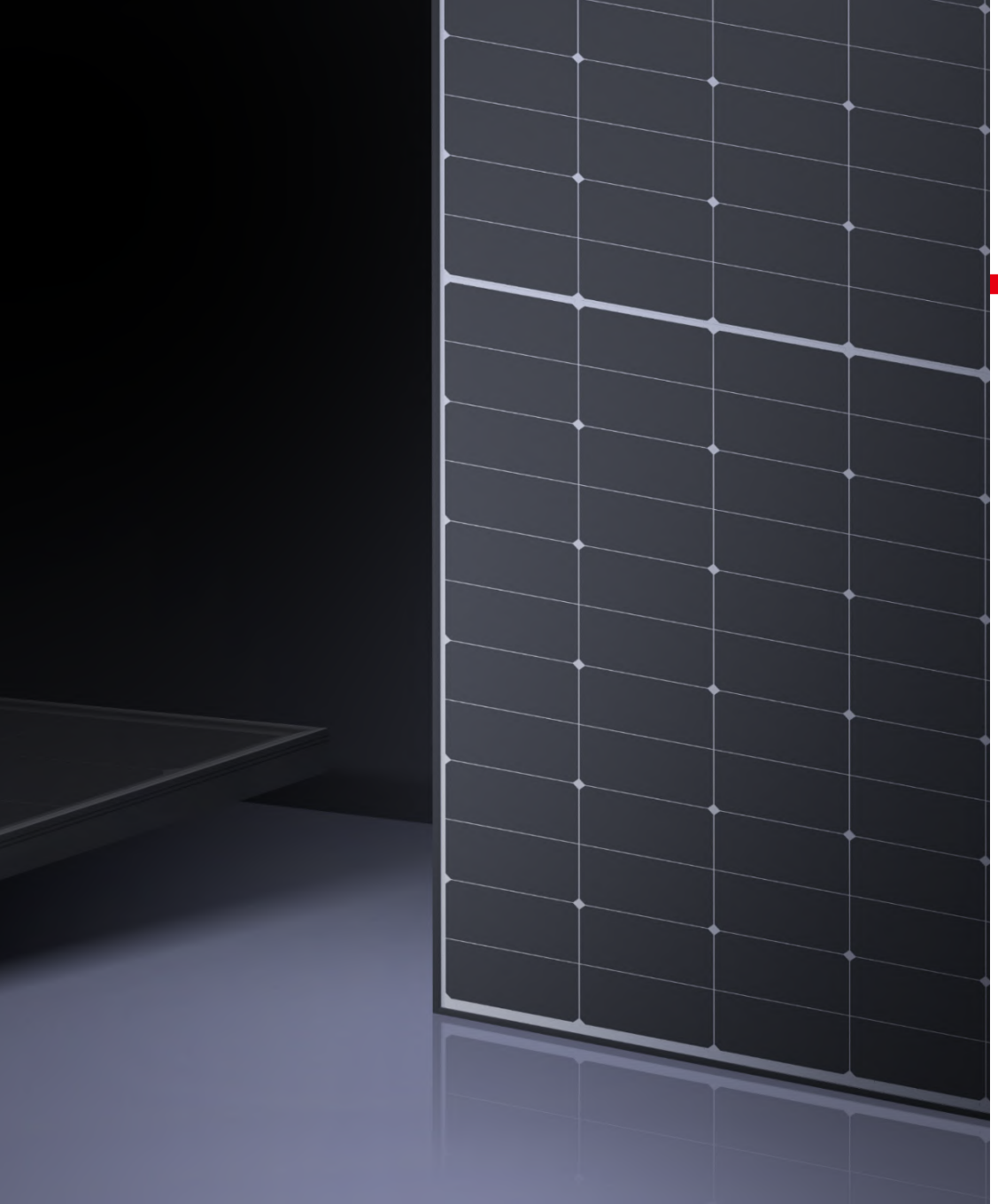
Hi-MO 9
The Beginning of The NEXT Ultimate
Efficiency up to 24.43%
HPBC 2.0 Technology
Uneven Irradiation Tolerance
30 years of Lower degradation



# 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

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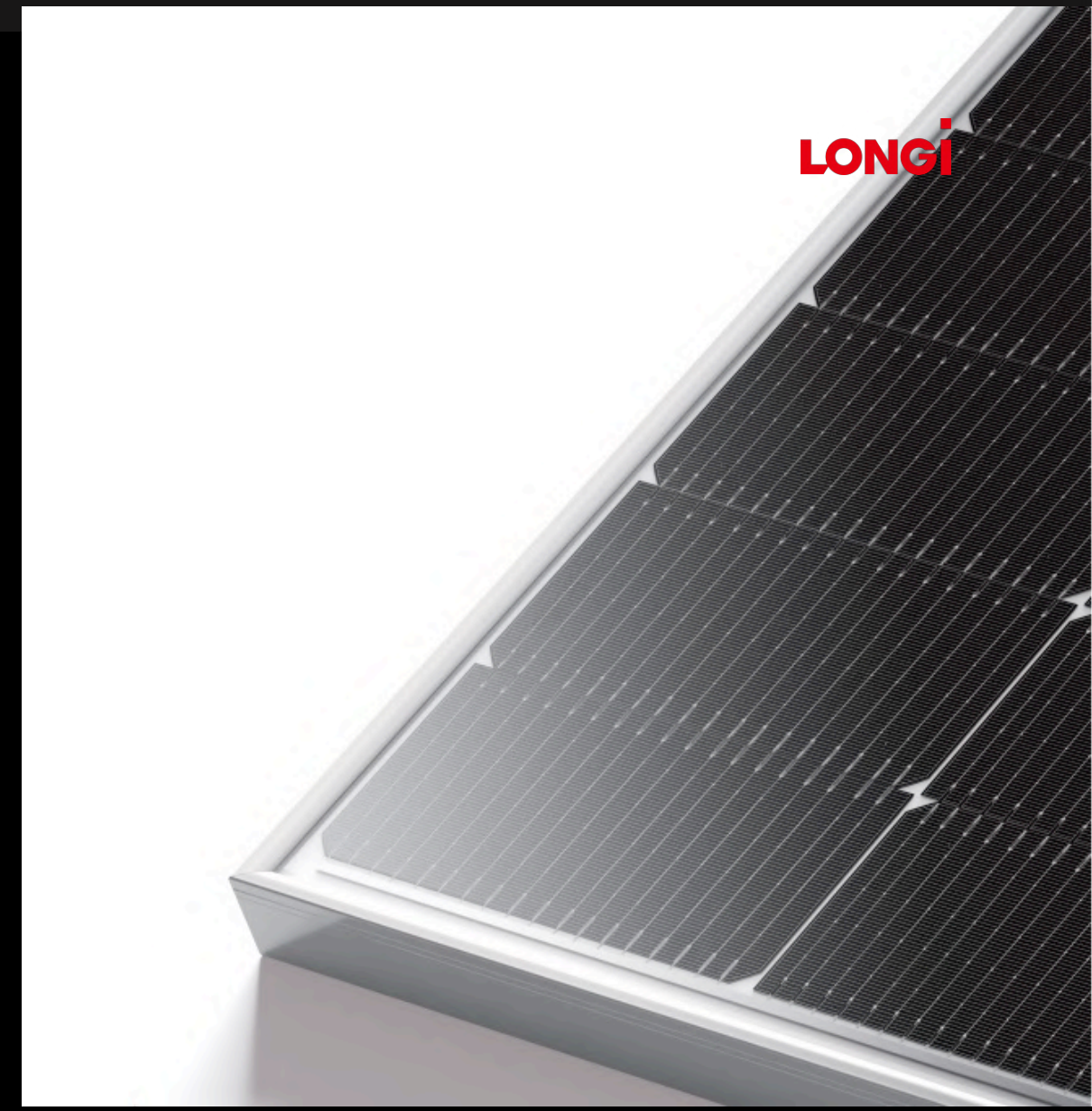

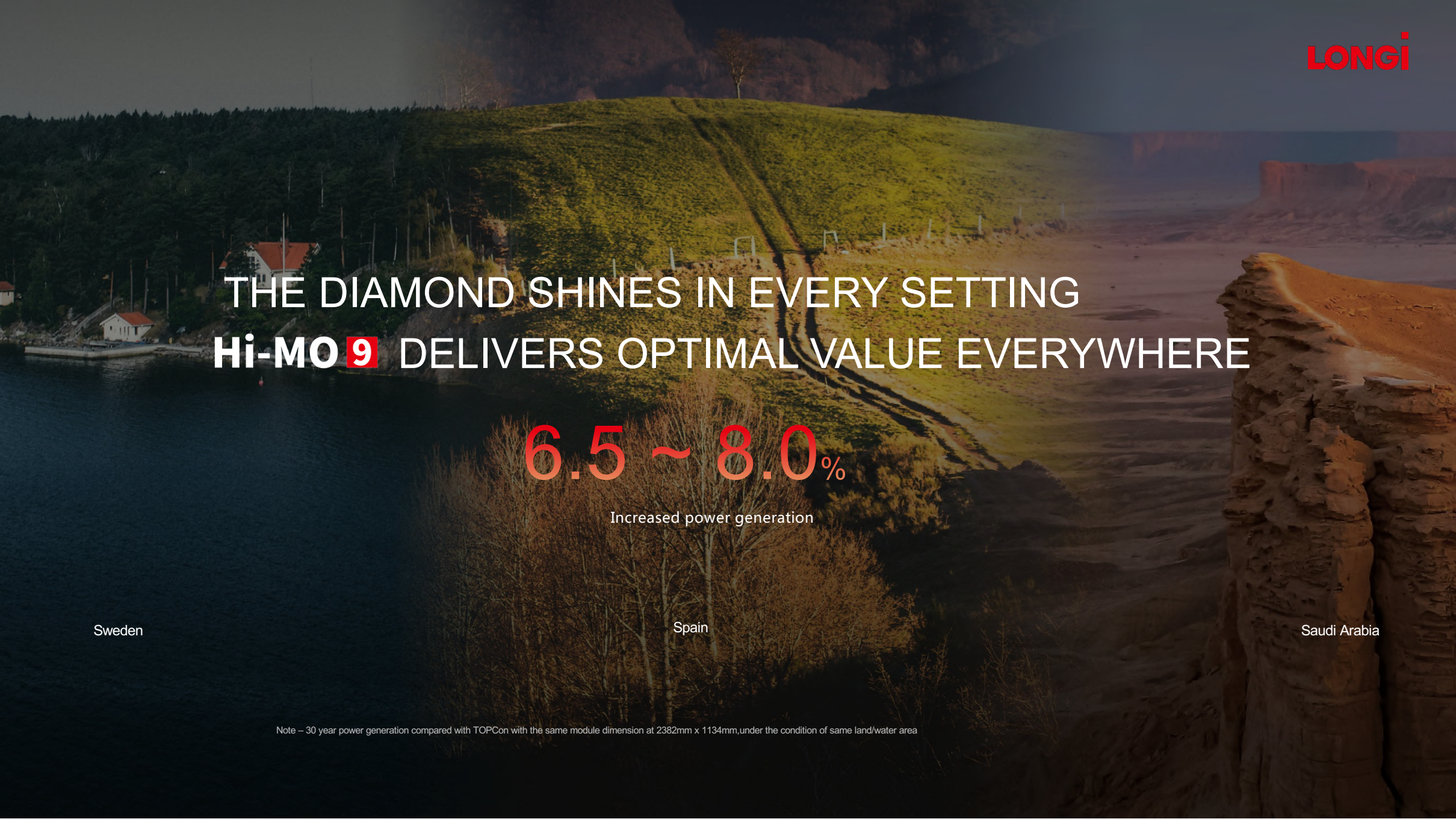
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THE DIAMOND SHINES IN EVERY SETTING
Hi-MO 9 DELIVERS OPTIMAL VALUE EVERYWHERE
6.5 ~ 8.0%
Increased power generation
Sweden
Spain
Saudi Arabia
Note – 30 year power generation compared with TOPCon with the same module dimension at 2382mm x 1134mm,under 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**

**5.0%+ more**

installed capacity

HPBC 2.0 **HPBC 2.0 TECHNOLOGY**

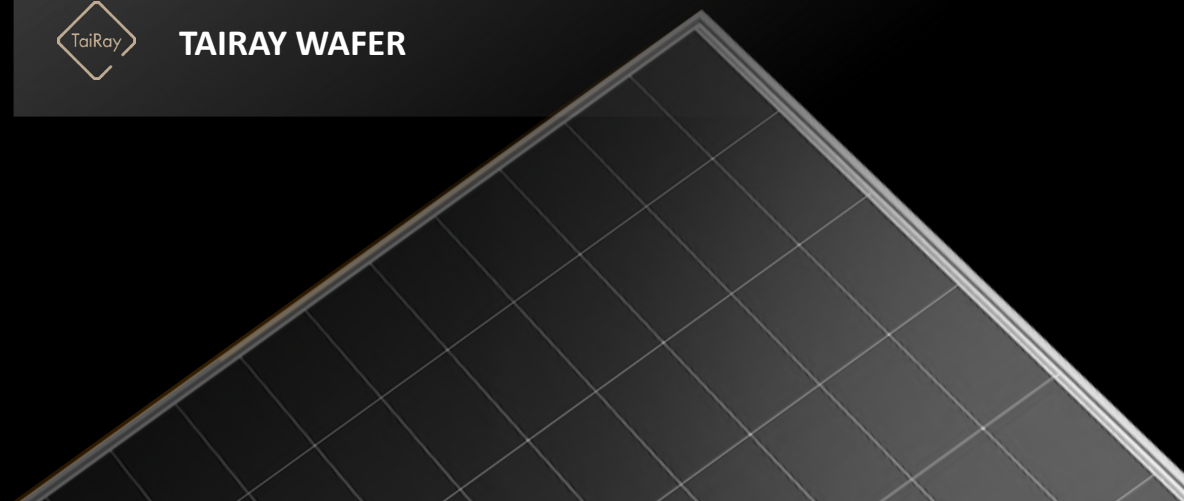
TaiRay **TAIRAY WAFER**

**TOPCon**

23.32% 630W

**HJT**

23.51% 635W

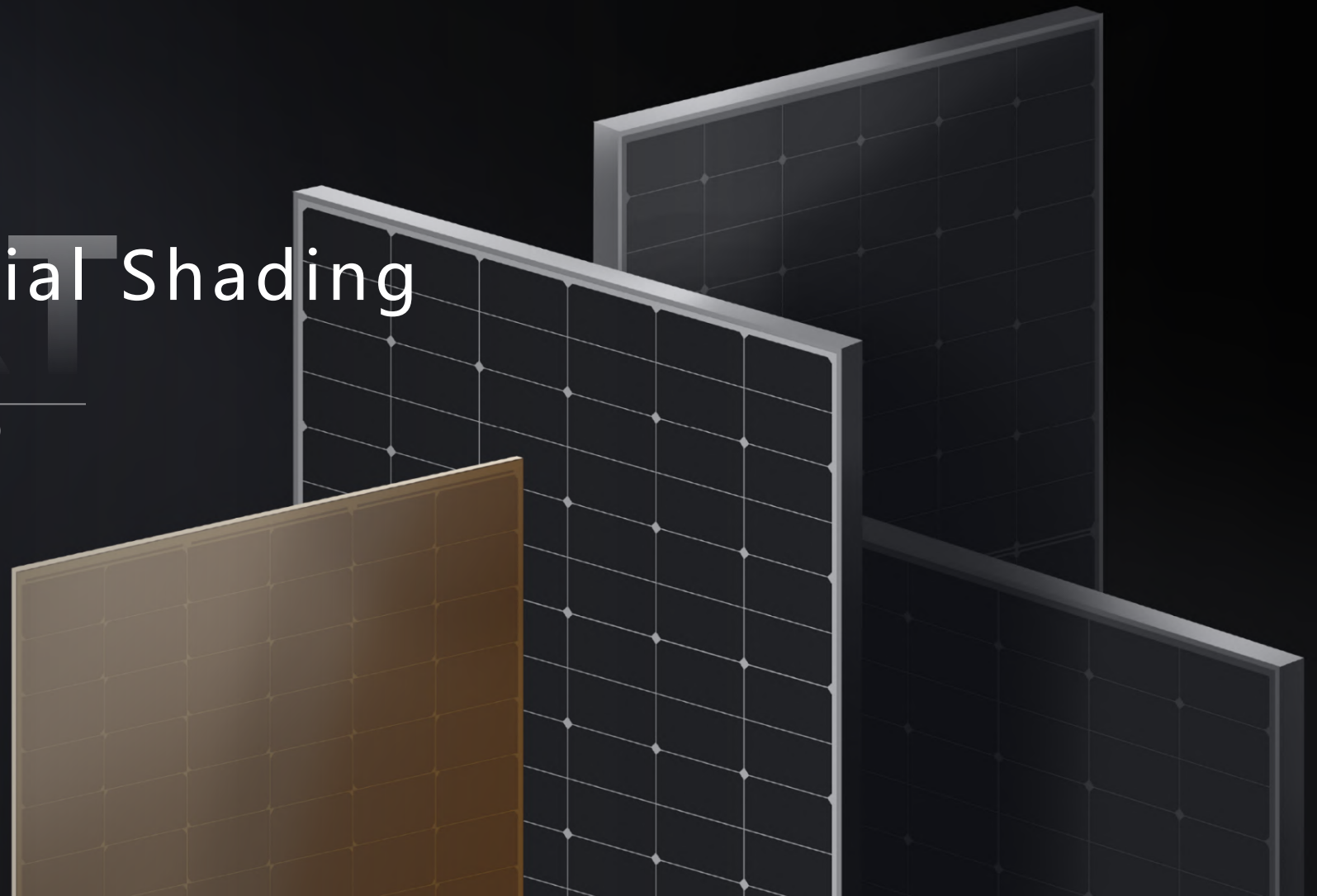


Note – compared with 630W TOPCon with the same module dimension at 2382mm x 1134mm, under the condition of same land area

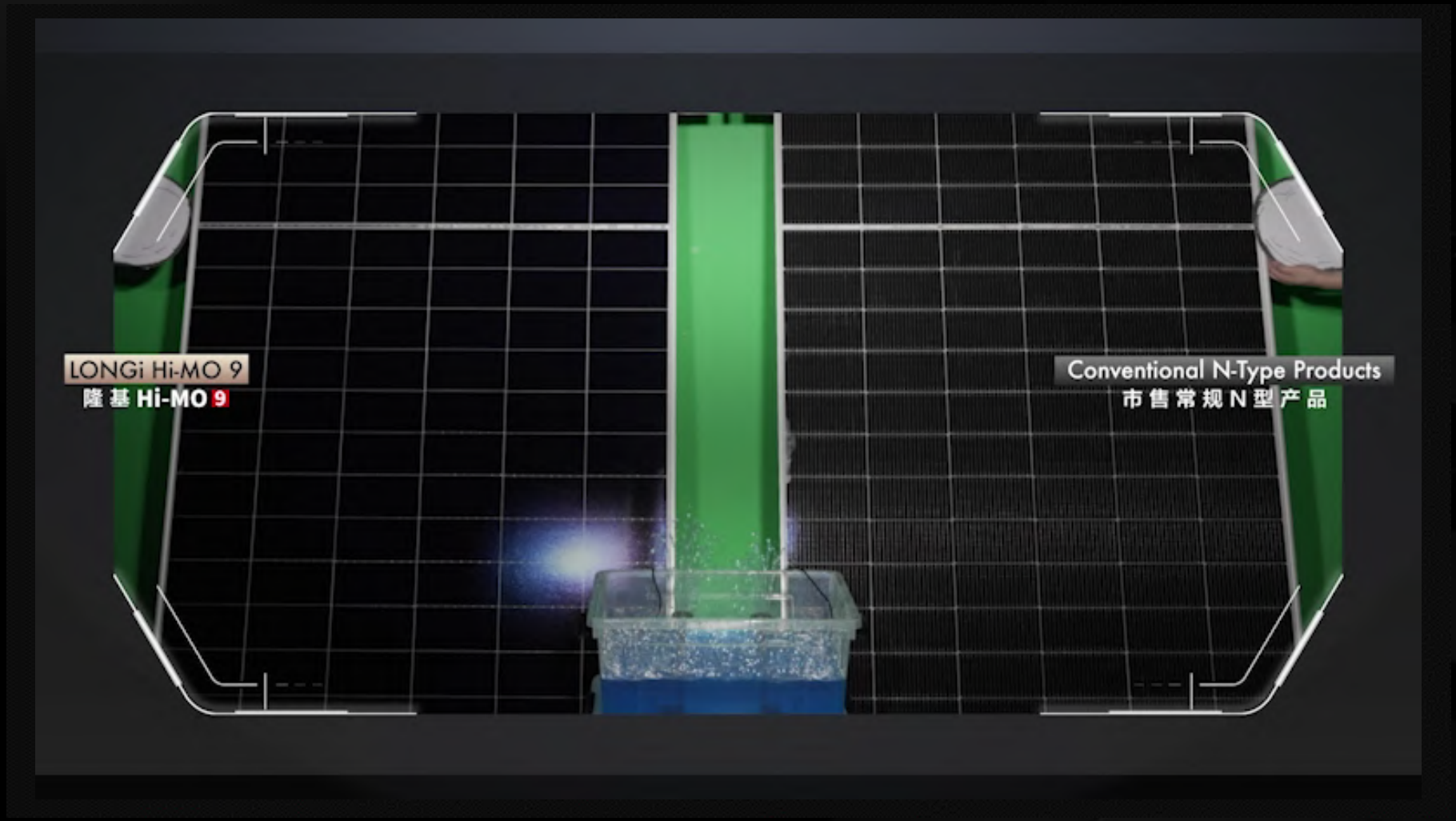
PART 2

# Partial Shading

PART TWO



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



# THE BRIGHT DAYTIME IS EXTENDED

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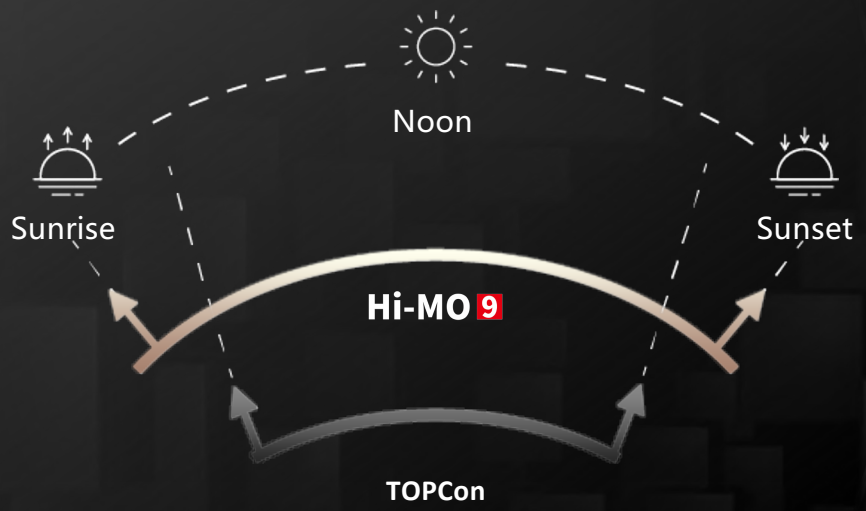
## Datetime Power Improvement

**Under different Irradiance**




## Longer Power Generation

**In daytime**

Note- – Compared with TOPCon


PART
3
Uneven Current
PART THREE

# LOWER TEMPERATURE UNDER UNEVEN CURRENT

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## Performance Comparison Test


**Hi-MO 9**
**TOPCon**
79℃
Highest temperature

**52℃ Less**
131℃
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/㎡


PART
4
Lifetime reliability
PART FOUR

# PREMIUM QUALITY BACKED BY THICKER WAFER

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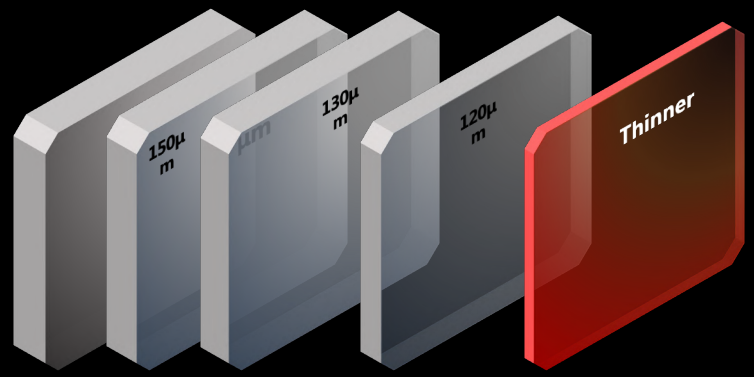
## Hi-MO 9

**10μm** 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

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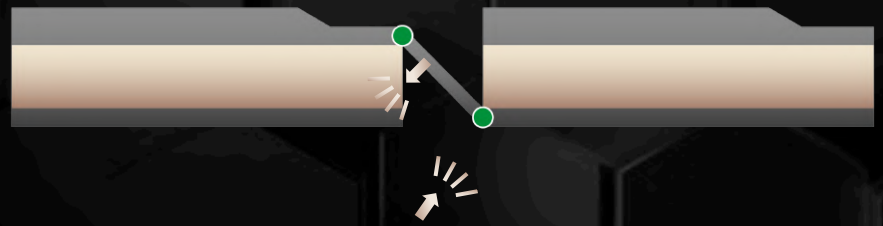
## Hi-MO 9

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

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# Hi-MO 9

## Limitless Horizons, Endless Income

- Efficiency up to 24.43%
- HPBC 2.0 Technology
- Uneven Irradiation Tolerance
- 30 years of Lower degradation