

# PIONEERING IN N-TYPE RESHAPING THE GREEN FUTURE

*The pioneer of 700W+ technology*



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**HANERSUN**

# THE WORLD'S LEADING CLEAN ENERGY COMPANY

Build a bridge of technology,  
approach to the zero-carbon world



Hanersun is a world-leading clean energy company, focusing on R&D, manufacturing and distribution of solar module and energy storage system, as well as comprehensive clean energy solutions. Committed to high-efficiency technologies, the company is one of the first to launch PV modules of 600W+ and 700W+ in the industry.

Founded in 2015, headquartered in Nanjing, China, Hanersun has established branches in the US, Europe, Japan, Australia, and other regions, ensuring localized customer services. It has consistently been recognized as a BNEF Tier 1 solar module manufacturer, earned the 'Top Performer' award from Kiwa PVEL, and featured on PVBL's 'Top 100 Global PV Companies' list.

By the end of 2024, Hanersun has cumulatively delivered over 14GW of solar modules, developed and built 800MW of solar projects worldwide, and seen its energy storage products selling throughout Europe. With a presence in over 100 countries and 1000 industry-leading partners, the company continues to lead in the global clean energy transition.

# SUSTAINED GROWTH

## MILESTONES

**2015**

Hanersun was founded in Hong Kong

**2017**

Practices globalization strategy, set up the Japan, US, Pakistani and European branches

**2020**

TOP 10 PV module exporter in Southeast Asia and grew into a global mainstream module supplier

**2021**

The shipments of bifacial 600W+ module ranked among the top five in the world

**2022**

Expanded into energy storage industry, set up Hanersun ESS Solution company

**2023**

Upgraded production lines, fully entered the N-Type era

Listed as 'Tier 1 PV module maker' by BNEF

**2024**

Set up Anhui PVESS Manufacturing Base, adding 5GW of module capacity

Awarded 'Top Performer' by Kiwa PVEL

**Tier1**

Solar Module Manufacturer

**Top Performer**

Awarded by Kiwa PVEL

**100+**

Countries Business Footprints

**14<sup>GW+</sup>**

Cumulative Modules Shipments

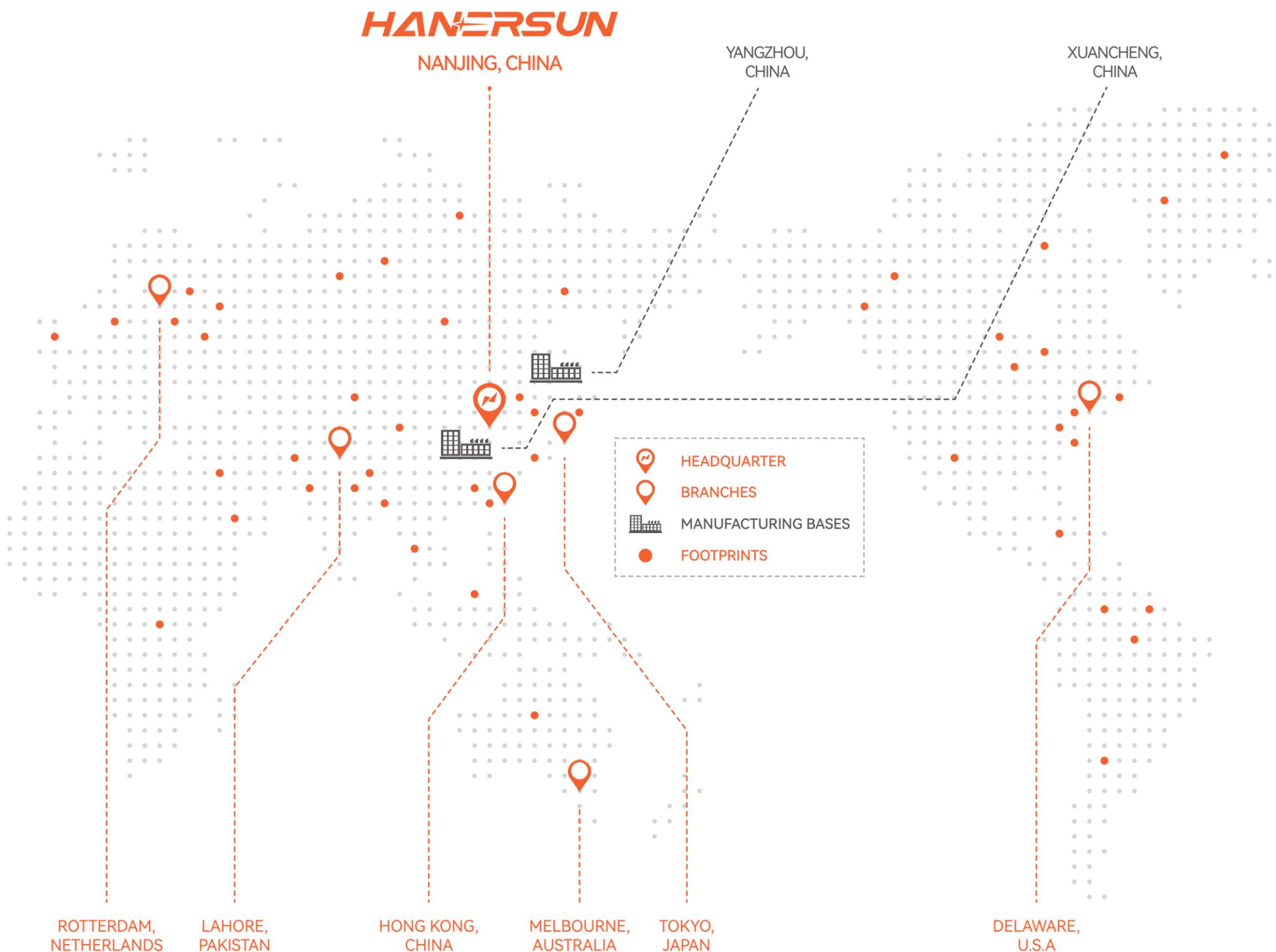
**800<sup>MW</sup>**

Projects Commissioned

**90+**

Financial Partners

# GLOBAL NETWORK



Headquartered in Nanjing, China, with a PVESS Manufacturing Base in Xuancheng, Anhui, Hanersun has established branches in the US, Europe, Japan, Australia, and other regions, ensuring localized customer support.

The company's operations span across more than 100 countries and regions worldwide, with over 1000 industry-leading partners.



# SUPERIOR VALUE



Trusted by over 90 international banks and financial institutions, Hanersun has been listed as 'Tier 1 PV module maker' by BNEF since 2023, bringing continuous and stable return on investment to global clients.



# WIN-WIN COOPERATION



1000+ customers worldwide embrace the growth and innovation of Hanersun.



# INNOVATION DRIVEN



Hanersun is committed to the continuous R&D of solar modules and owns more than 100 technology patents, with independent intellectual property rights in the core areas of bifacial and TOPCon technology. We have taken the lead in launching the 210mm module and TOPCon module in the industry.

## 2021

- Released the **HITOUCH 5** 182mm half-cell module
- Released the **HITOUCH 6** 210mm half-cell module

## 2022

### USHERING IN A NEW ERA OF N-TYPE

- Released the **HITOUCH 5N** 182mm TOPCon module

## 2023

### 700W+ ULTRA-HIGH EFFICIENCY MODULES

- Released the **HITOUCH 6N** 210mm TOPCon module
- Released the **HITOUCH 5A** 182mm ABC module

## 2024

- Released the **HITOUCH 6RN** module series
- Released the **HITOUCH 6H** 210mm HJT module



100+  
Solar Patents



Experienced  
R&D Engineers



Module Efficiency  
up to 23.5%



Highly Competitive  
Product Iterations



# MODULE SERIES

## HITOUCH N

TOPCON SOLAR CELL      HIGH EFFICIENCY  
ZERO LID/LETID EFFECT      EXCELLENT BIFACIAL RATE

High-efficiency TOPCon cell with non-destructive cutting

Multiple busbar design increases power output by 1-2%

0.5mm cell spacing, high-density encapsulation

Round wire busbars increase power output by 2%

Bifaciality up to 80%-85%

All black customizable

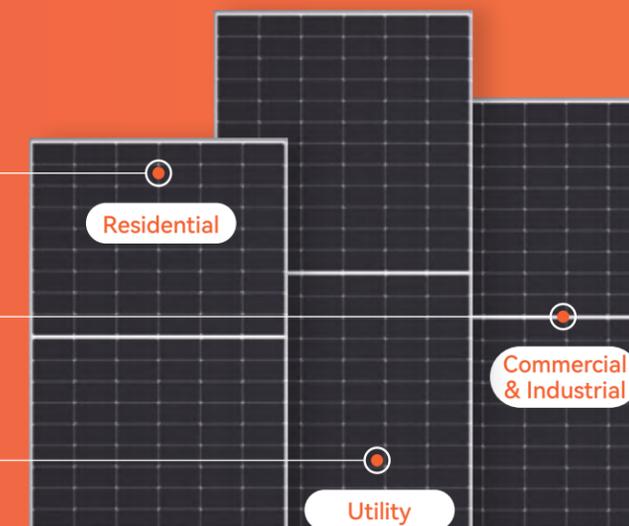
## Hitouch 5N

182mm TOPCon Series

108 cells | 54 | 440W | 22.5%

120 cells | 60 | 490W | 22.6%

144 cells | 72 | 590W | 22.8%



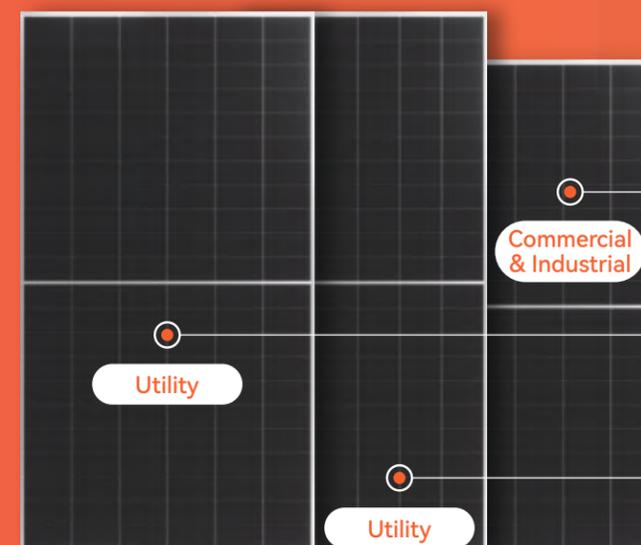
## Hitouch 6N

210mm TOPCon Series

120 cells | 60 | 645W | 22.8%

132 cells | 66 | 710W | 22.9%

132 cells | 66R | 620W | 23.0%



# HITOUCH H



HETEROJUNCTION CELL  
ULTRA-LOW DEGRADATION

SUPERB EFFICIENCY  
HIGHER BIFACIALITY

210mm High-efficiency heterojunction cell

SMBB technology enhances power output by 2%

Weathering resistance is improved  
by encapsulating with advanced sealing technology

Low Temperature Coefficient of  $-0.24\%/^{\circ}\text{C}$

25% power generation increase from  
rear side due to 90% bifaciality

**Hitouch 6H**  
210mm HJT Series

132 cells		66R		625W		23.1%
132 cells		66		720W		23.2%

# FULL BLACK SERIES



PERFECT BALANCE BETWEEN AESTHETICS AND EFFICIENCY

Within 2m<sup>2</sup>  
Premium Size for Rooftops

Obsidian Like Appearance  
Enriches Architectural Aesthetics



Residential

Residential

## Hitouch 6N

210R TOPCon Series

96 cells | 48HB | 445W | 22.3%

## Hitouch 5N

188R TOPCon Series

108 cells | 54HB | 445W | 22.3%

# CRYSTAL SERIES

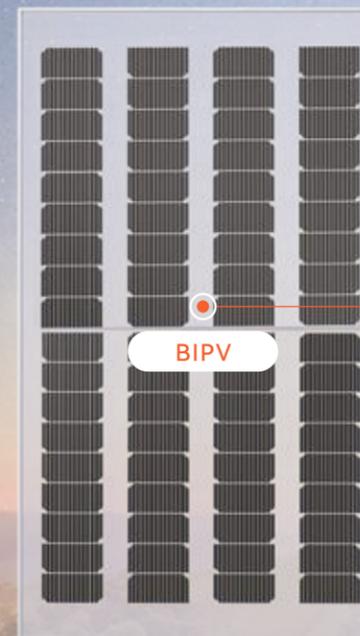


NO NEED TO CHOOSE BETWEEN LIGHT AND ELECTRICITY

Light Transmittance up to 45%

1500V System Voltage, Lower BOS Cost  
Higher-Than-Ever ROI

Perfect for BIPV, Agrivoltaics



BIPV

## Hitouch 5N

182mm TOPCon Series

72 cells | 36 | 295W

# INTELLIGENT MANUFACTURING

AUTOMATION



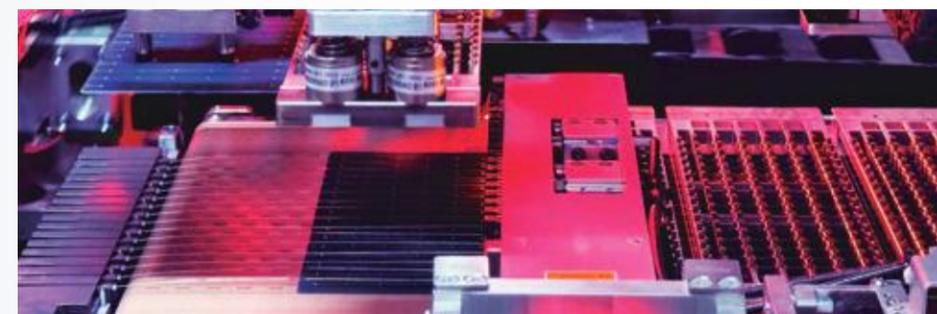
INTELLIGENCE



REFINEMENT



Focusing on the integration of production and research, Hanersun continuously enhances the automation and intelligence of its manufacturing processes. In 2023, we carried out technological upgrades to our existing production lines, effectively improving energy utilization and further reducing production costs. In 2024, our PVESSE manufacturing base in Anhui officially commenced production, achieving a 95% automation rate and producing a module within 16 seconds, maintaining a yield rate of 99.8%, and establishing a lean and efficient intelligent production model.





## PROVEN QUALITY



Quality is our core value. With unceasing efforts, Hanersun has developed its exclusive quality management system based on international advanced management experience. Following an on-site audit and comprehensive assessment by CCCI, Hanersun has successfully passed three system certifications for Quality Management System (ISO 9001:2015), Environment Management System (ISO 14001:2015), and Occupational Health and Safety Management System (ISO 45001:2018).

Flawless supplier management and evaluation system, 100% batch inspection

Full data monitoring through MES and AOI to promote process upgrading

100% FQC/OQC inspection, 10% OBA inspection

52 quality check points, 3\*100% EL tests

## PRODUCT CERTIFICATION



## EXTRA-LONG WARRANTY

### BIFACIAL

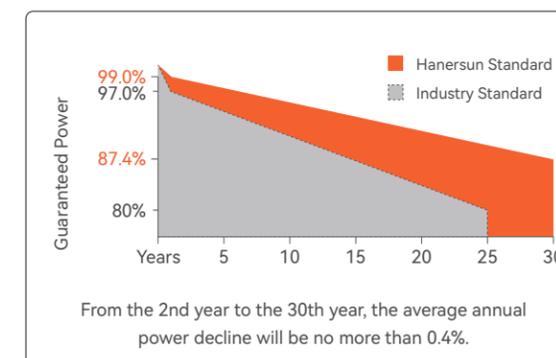
15-year product warranty

30-year performance warranty

### MONOFACIAL

15-year product warranty

30-year performance warranty



## INSURANCE

Warranty partner



# PV-STORAGE INTEGRATION

## EXPANDING THE BOUNDARIES OF SOLAR

To Meet More Diversified Applications



In areas where electricity prices are high, energy storage system is the best solution to reduce power purchase expenses. Established in 2022, Hanersun ESS Solution Co., Ltd. is a wholly-owned subsidiary of Hanersun Technology Co, Ltd., focusing on energy storage products and solutions. The company has leveraged its expertise in integrating PV and storage technologies to design storage solutions that ensure reliable and efficient energy management.

Building on this focus, to date, Hanersun has successfully developed two generations of the HNESS series, designed for the C&I sector. These advanced systems have successfully been commissioned in the Europe, providing uninterrupted power to customers.





# ENERGY STORAGE SYSTEM

WIDE OUTPUT RANGE, HIGH RELIABILITY.

## HNESS 3420/5000-20H 3.42-5MWh

Intelligent Energy Storage Cabinet  
Liquid Cooling



Optimal Safety and Reliability



High Energy Density



Superior Efficient and Versatility



Intelligent O&M Platform



## HNESS 230-L 100kW / 230kWh

Utility Storage System  
Liquid Cooling



Versatile Application Scenarios



Safe and Durable



Comprehensive Fire Safety



Intelligent O&M Platform



# GLOBAL PROJECTS



Hanersun provides a wide range of high efficiency modules and professional solar system solutions depending on the different types of application scenarios and customer needs. It is Hanersun's mission to continuously push boundaries and broaden the possibilities of solar applications.



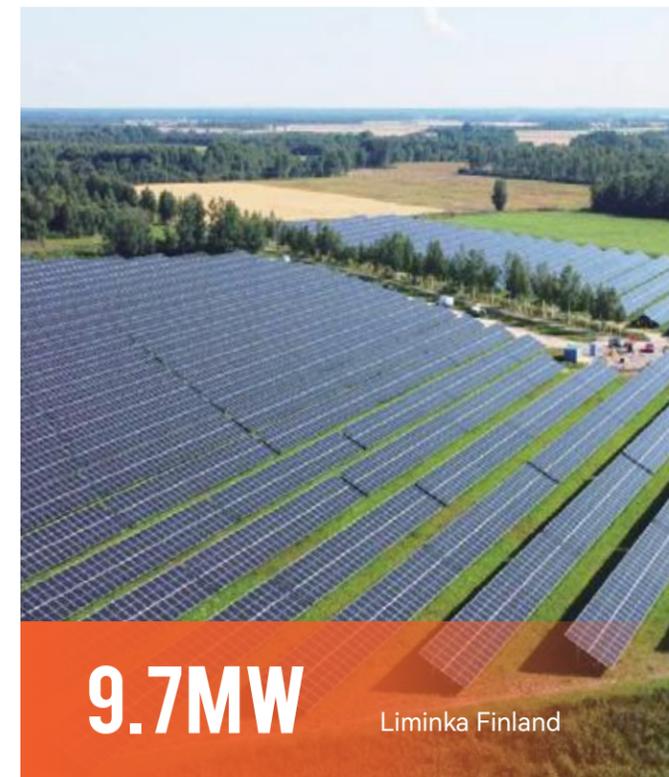
**50MW**

Sa Kaeo Thailand



**48MW**

Guizhou China





*An endless journey  
with the light*

