HOPEWIND
UTILITY SOLUTION INTRODUCTION

HOPEWIND

Shenzhen Hopewind Electric Co., Ltd.

Hopewind——Hope For A Greener World

VISION

- Become a world-class solution provider for power conversion and control.

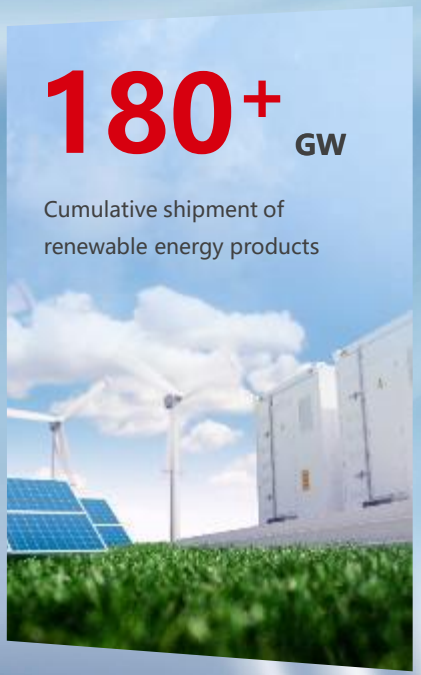
VALUE

- Integrity and responsibility, open innovation, pursuit of excellence, collaborative growth.

MISSION

- Promote technological progress in the industry and create a better life for mankind.

Company Profile



Hopewind——Hope for a Greener World

PV Power

String inverter
Central inverter
Transformer & inverter Combo

Wind Power

Doubly-fed converter
Full Power converter
Energy management system

Energy Storage System

PCS
Turnkey PCS station

Variable Frequency Drive

HV350/HV510/HV610
HV500/HD2000 low voltage
HD8000 medium voltage

Solar Power

1

TOP 7

Inverter Supplier in China

Inverters applied for the first **2GW** PV desertification control project in China. Batch shipment of grid-forming inverters for **grid-forming** PV projects.

2

Tier 1

Photovoltaic Inverter Maker by BloombergNEF

The only Chinese inverter manufacturer **nominated for the smarter E AWARD 2024.**

3

A Comprehensive Product Range

String and centralized types, inverter power classes range from **3kW to 3.125MW.** listed and certified in global Markets.

4

Extensive Distribution Channels

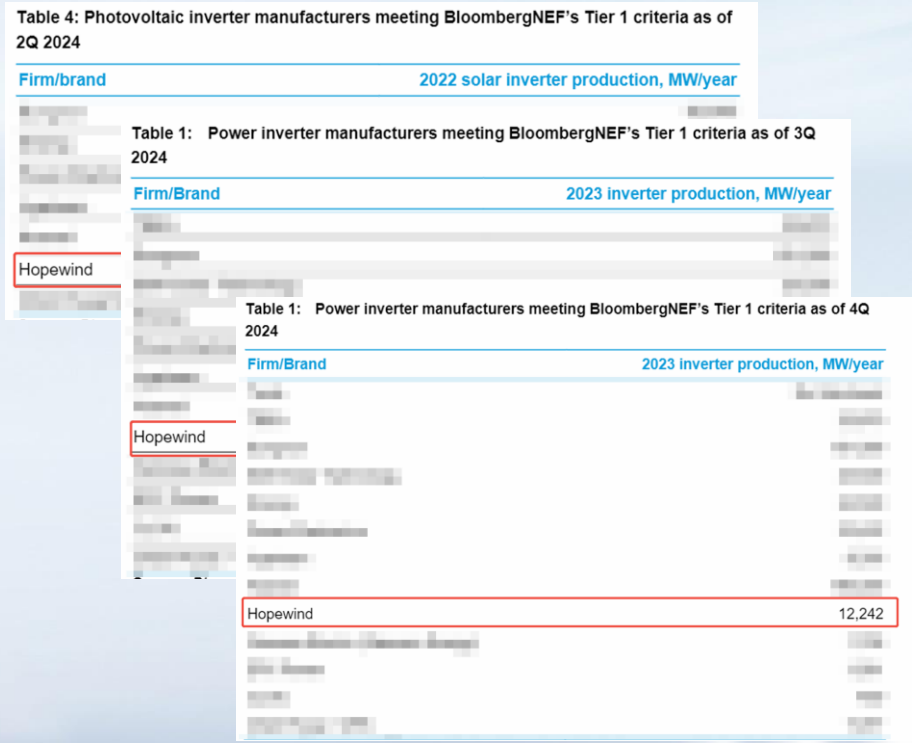
Developed distribution channels both on-line and off-line in **South America**, **APAC** and **EMEA** regions.

Bloomberg NEF

Table 4: Power inverter manufacturers meeting BloombergNEF's tier 1 criteria as of 1Q 2025

Firm/Brand	2023 inverter production, MW/year
[redacted]	[redacted]
Hopewind	12,242
[redacted]	[redacted]

Source: *BloombergNEF. Note: Methodology is here. List is in reverse alphabetical order to avoid giving the impression that the order is relevant. Companies can access the finance deals in BNEF's asset finance database (link) and download the solar dataset of financings here.*



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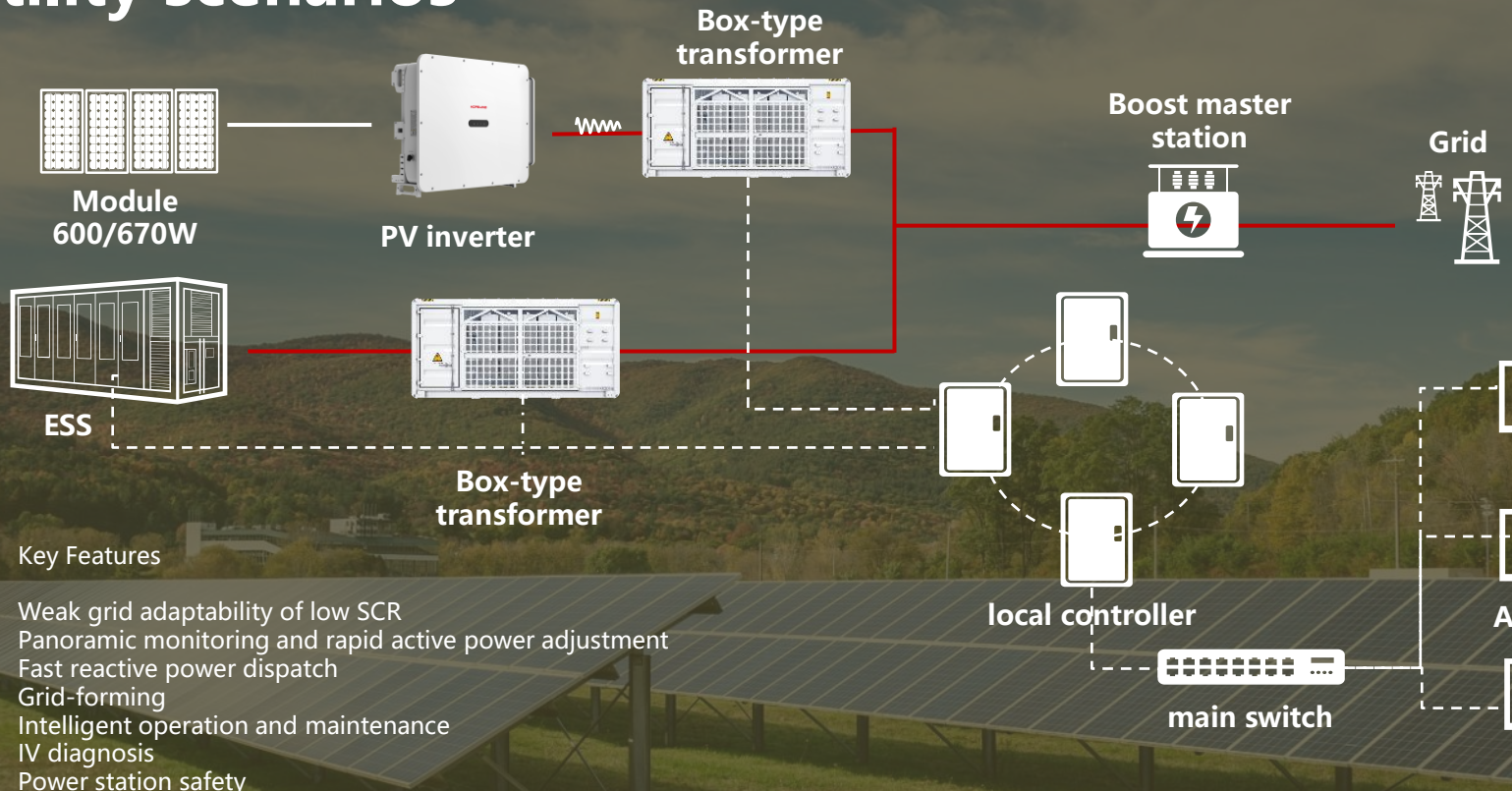
Utility scenarios



Key Features

Weak grid adaptability of low SCR
Panoramic monitoring and rapid active power adjustment
Fast reactive power dispatch
Grid-forming
Intelligent operation and maintenance
IV diagnosis
Power station safety

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Utility Product

hopeSunHV 250KTL

hopeSunHV 250KTL

DC input: 500~1500V
AC output: 800V(3P+PE)
Max. Input Current Per MPPT:45A
Max. Efficiency: 99.01%
Protection: IP66
Operating Temp Range: -25~+60℃
Cooling System: Smart air cooling
Communication: RS485 / PLC

HSHV320/330/350/385K-G01

HSHV320/330/350/385K-G01

DC input: 500~1500V
AC output: 800V(3P+PE)
Max. Input Current Per MPPT:60A
Max. Efficiency: 99.01%
Protection: IP66
Operating Temp Range: -25~+60℃
Cooling System: Smart air cooling
Communication: RS485 / PLC

HSHV/330/350/385K-G02

HSHV320/330/350/385K-G02

DC input: 500~1500V
AC output: 800V(3P+PE)
Max. Input Current Per MPPT:65A
Max. Efficiency: 99.01%
Protection: IP66
Operating Temp Range: -25~+60℃
Cooling System: Smart air cooling
Communication: RS485 / PLC

Solution and Value Presentation

HSHV330/385K-G01

Low investment, high efficiency

- highest power inverter of the market，no derating in the ambient temperature of **40°C**
- Compatible with all modules (182mm/210mm/bifacial/N-type) and achieve 150% DC/AC ratio
- Supports aluminum AC cable connections
- Integrated PID recovery function，Maximum efficiency of **99.01%**, European efficiency of **98.70%**

Enhanced grid connectivity and environmental adaptability

- Integrated with DC/AC lighting protection
- Minimum SCR of **1.03**, exhibiting excellent adaptability to weak grids
- IP66
- Night SVG(optional)

Lower cost for post-installation maintenance

- 24/7 real-time monitoring through the APP and cloud-based HopeCloud platform
- Fuse-free design with intelligent DC shutdown
- Intelligent IV curve diagnosis + intelligent string monitoring
- Supports PLC communication + remote firmware upgrades

Certification

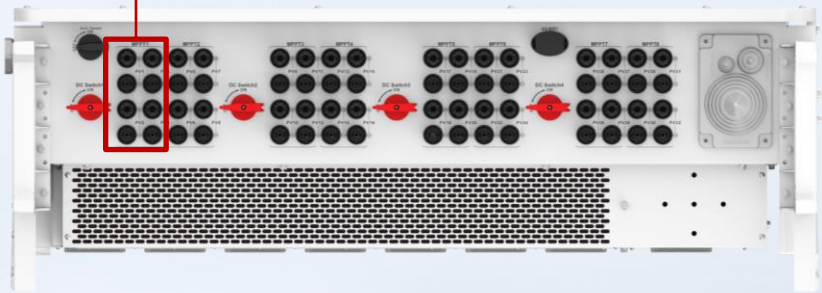
HSHV320~385K-G01
IEC/EN 62109-1, -2
IEC/EN 61000
EN 62920
EN 55011
IEC 62116; IEC 61727
IEC 60068-2
IEC 61683
EN 50530
EN 50549
IEC 63027
CEA
OND
MEA,PEA

Compatible With All Mainstream Components

Hopewind Solution

- High current **65A** can adapt to all mainstream photovoltaic modules on the market.

MAX. Input Current Per MPPT:
65A (920V~1300V)



- Achieve DC/AC ratio up to **1.5**

FAQ

- A common problem faced by customers is that inverters from some other brands cannot adapt to the new versions of PV modules.

Solution Advantages


182mm ✓


210mm ✓


Bifacial ✓


type N ✓

More flexible component procurement , convenient technology upgrade and maintenance.

Inverters with high capacity ratio can reduce system costs.

Supports Aluminum Cable

Hopewind Solution

Aluminum Cable

Copper Cable

FAQ

Customers may consider the price and cost-effectiveness of cable materials to fit their budget and financial needs.

Solution Advantages

Low cost: For large inverter systems or long cable connections, using aluminum cables can reduce costs to a certain extent.

Light weight: Aluminum cables are much lighter than copper cables, making them easier to handle.

Higher Adaptable

Hopewind Solution

- **Minimum SCR ≥ 1.03**

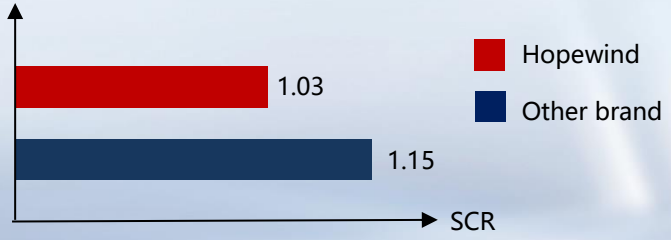
The SCR is the system short-circuit capacity: (short-circuit current × short-circuit voltage)/equipment capacity, which represents the anti-interference ability.. Generally, the closer the SCR value is to **1**, the stronger the inverter's ability to adapt to weak grid conditions.

FAQ

- Mountainous and remote areas, In mountainous and remote areas, the power grid quality is poor.

Solution Advantages

Even in mountainous and remote areas, it can adapt to poor quality power grids.



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Ensure Safety

Hopewind Solution

◆ Personal Security

Device integrated residual leakage current detection function. Personnel contact safety.

◆ Fire Security

Inverter integrates AFCI and DC switch to quickly identify arcs and shut them down to prevent fires.

◆ Device Security

Equipped with type Ⅱ SPD to effectively protect photovoltaic inverters from lightning damage

FAQ

◆ Will operation and maintenance personnel face the risk of electric shock?

◆ Why do component fires often occur?

◆ Lightning strikes cause damage to the inverter’ s electronic components and circuits.

Solution Advantages

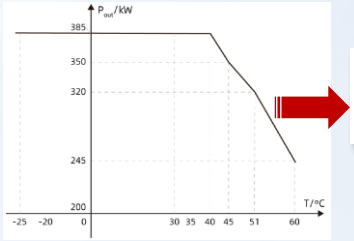
Operation and maintenance personnel can monitor leakage current in real time and receive alarm notifications to avoid potential safety risks.

Extend the life of PV panel and reduce the frequency of repairs and replacements. Prevent fire.

Type Ⅱ SPD can quickly make overvoltage events and guide the overvoltage to ground through an appropriate path.

Adapt To Harsh Environments

Hopewind Solution



-25℃~+60℃: It can still operate up to 60°C.

IP66: The inverter has efficient dustproof performance and excellent waterproof performance

C5: Anti-corrosion protection

FAQ

The country is located in a high temperature zone. Or in a desert area with high temperatures.

High dust or high humidity environment

The salt and moisture from the sea corrode the metal parts on the surface of the inverter.

Solution Advantages

1.

	Hopewind	A	B
350K	45℃	30℃	30℃
320K	60℃	40℃	40℃

2. Allow the inverter to operate in deserts, rivers and lakes and other dusty or moist environments.

3. Allows the inverter to operate normally in highly corrosive environments like the seaside

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IV Curve Scan+Fault Waveform Record

Hopewind Solution

IV curve scan

Fault waveform record

FAQ

- Want to understand the current-voltage characteristics of the string in an intuitive way.
- Fault recording can record the waveform data of the inverter during a fault event, including parameters such as current, voltage, and power. The customer wants to identify and locate fault causes in the inverter system by analyzing fault wave recording data.

Solution Advantages

- By scanning the IV curve of a solar panel, customers can detect and diagnose faults in PV panels.
- Customers can analyze panel efficiency and predict system energy yields.
- Help customers quickly diagnose faults.
- Fault recording data can be used for early warning and preventive maintenance of faults.

Case

High temperature scene

Photovoltaic power station

Kubuqi Desert

The maximum temperature reaches above **45℃**

High humidity scene

Photovoltaic power station

Vietnam

Proximity to pond, high **humidity**

High altitude scene

Photovoltaic power station

Xizang

The maximum altitude reaches above **4,000m**

Low temperature scene

Photovoltaic power station

Heilongjiang

The minimum temperature reaches **-25℃**

High dust scene

Photovoltaic power station

Inner Mongolia

Located in the suburbs, high **dust** scene

Mountainous secne

Photovoltaic power station

Shanxi

Located in high mountains , **rugged** environment

HOPEWIND

2GW

Photovoltaic Desertification Control Project in Kubugi, Inner Mongolia

350kW String Inverter ▶▶▶

The Kubuqi Photohydrogen Desertification Control 2GW Project

- **Inner Mongolia Kubuqi Desert**

Average annual power generation is 4 billion kWh

SCR 1.03 has strong adaptability to weak power grids

IP66 high protection degree

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360MW

Photovoltaic Composite Project in Zhenkang,Lincang,Yunnan Province

◀◀◀ 350kW String Inverter

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300MW

Photovoltaic Composite Project in
Boshang, Lincang,Yunnan Province

350kW String Inverter ▶ ▶ ▶

HOPEWIND

200MW

Agricultural-Photovoltaic Complementary Project in Baoshan,Yunnan Province

320kW String Inverter ▶ ▶ ▶

HOPEWIND

200MW

Mountainous Distributed Photovoltaic Project in Qinxian,Changzhi,Shanxi Province

◀◀◀ 225kW String Inverter

200MW

Ningxia Zhongwei Zhongning Photovoltaic Composite Project

◀◀◀ 225kW String Inverter

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158MW

Agricultural-Photovoltaic Complementary Project in Yangjiang, Guangdong Province

◀◀◀ 225kW String Inverter

Hunutlu 100MW Project

- Emba Hunutlu power station Adana Province, Türkiye

Hopewind 250KTL String Inverter

HOPEWIND

100MW

Heiyanwa Photovoltaic Project in Baoshan,Yunnan Province

320kW String Inverter ▶▶▶

HOPEWIND

100MW

Ganhekou Photovoltaic Project in Guazhou,Jiuquan,Gansu Province

225kW String Inverter ▶▶▶

HOPEWIND

100MW

Guizhou Liupanshui
Photovoltaic Power Station Project

350kW String Inverter ▶ ▶ ▶

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160MW

Photovoltaic Power Plant Project in Yongsheng,Lijiang,Yunnan Province

225kW String Inverter ▶▶▶

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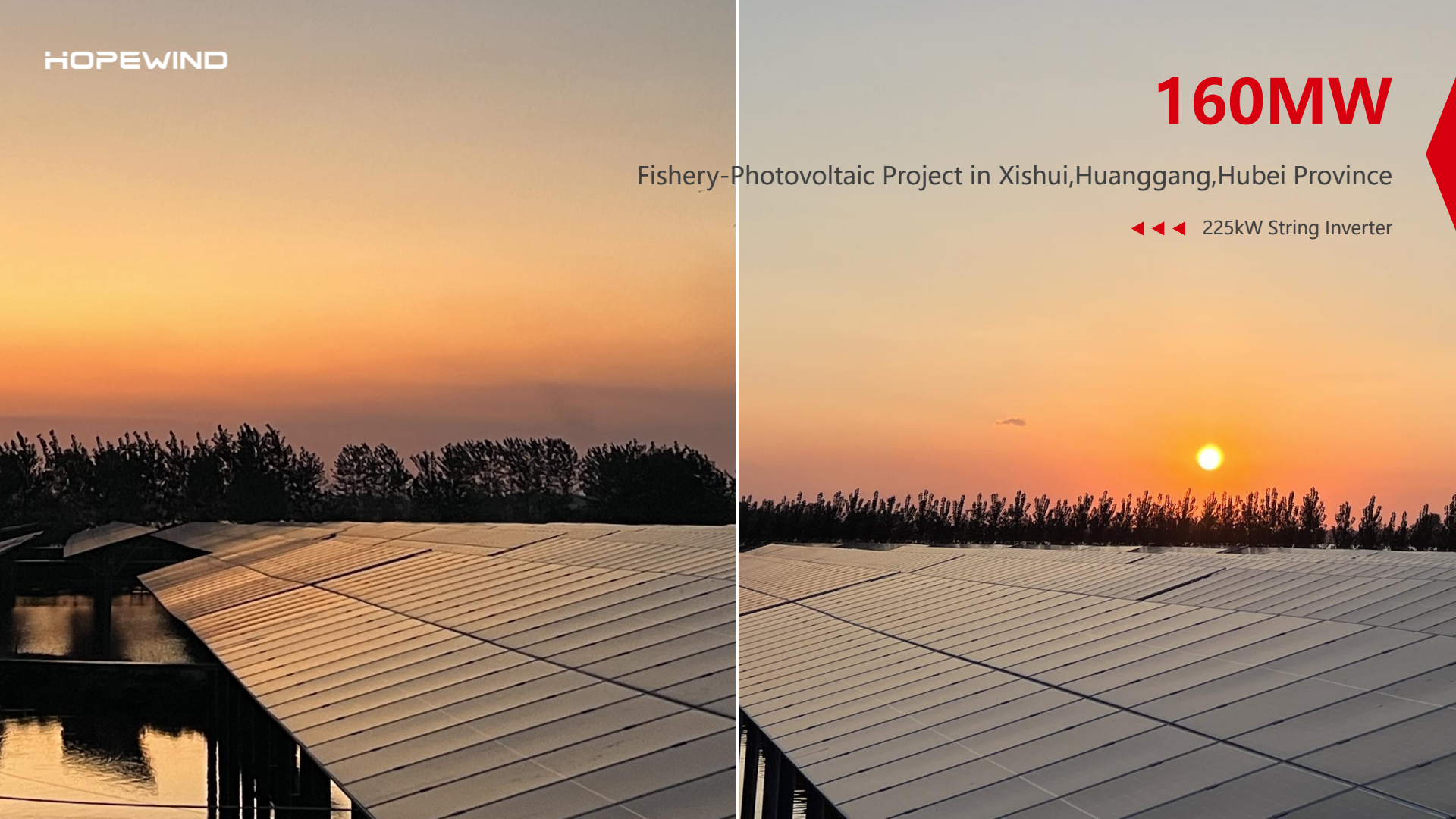
160MW

Fishery-Photovoltaic Project in Xishui,Huanggang,Hubei Province

◀◀◀ 225kW String Inverter



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50MW

Yuci District Photovoltaic Project in Jinzhong, Shanxi Province

225kW String Inverter ▶▶▶

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100MW

Forest-Photovoltaic Project in kelan,Xinzhou,Shanxi Province

◀◀◀ 225kW String Inverte

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11MW

Rehabilitation of PV Poverty Alleviation Project in Tongren, Qinghai Province

125kW String Inverter ▶▶▶

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200MW

Ningxia Tongxin Xiamaguan 200MW
Photovoltaic Sand Control Project

◀◀◀ 225kW String Inverter

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100MW

Shanxi Datong Mountain Photovoltaic Project

◀◀◀ 225kW String Inverter

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80MW

Agricultural -Photovoltaic Complementary Project in Lincang,Yunnan Province

225kW String Inverter ▶▶▶

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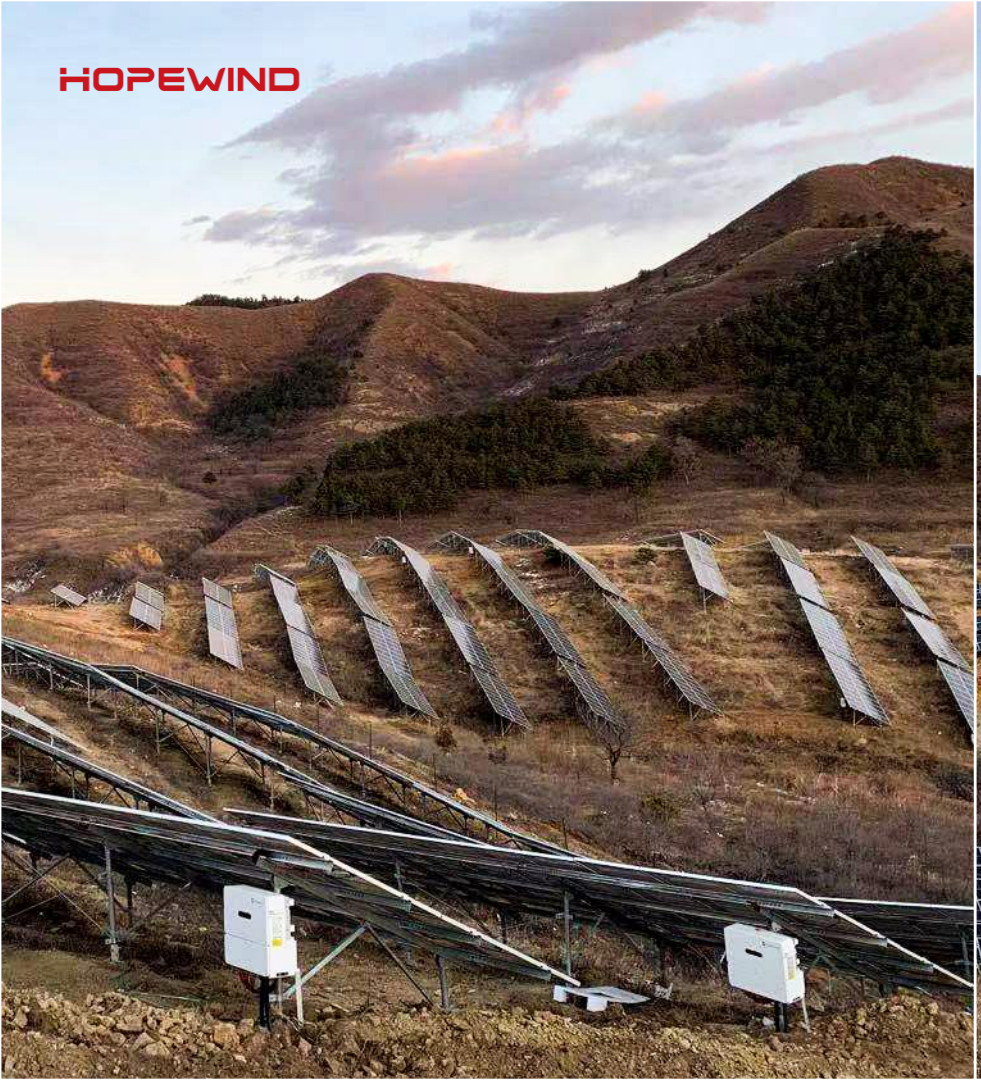
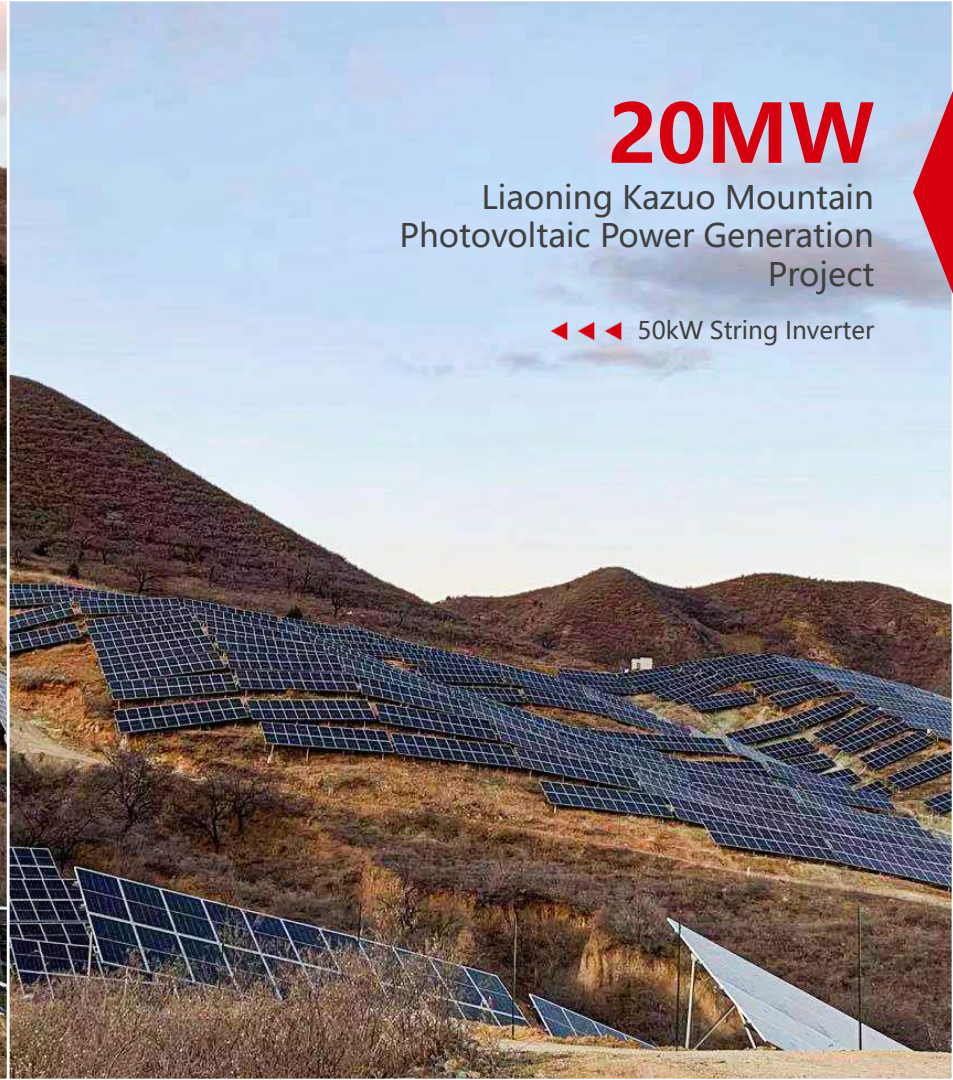
20MW

Liaoning Kazuo Mountain
Photovoltaic Power Generation
Project

◀◀◀ 50kW String Inverter





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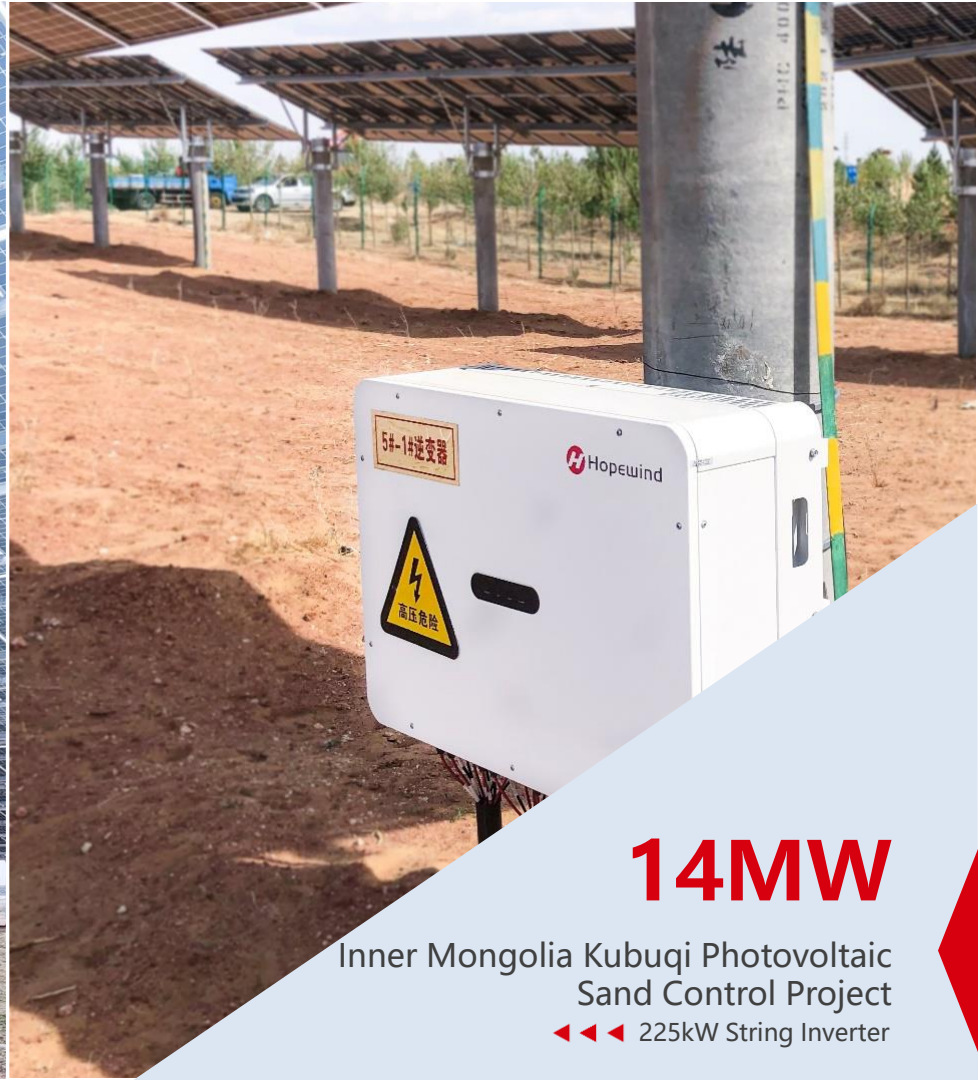
78MW

Anhui Maanshan PV ground station Project

3.125MW / 2.5MW Centralized Inverter

225kW String Inverter ▶▶▶



14MW

Inner Mongolia Kubuqi Photovoltaic Sand Control Project

◀◀◀ 225kW String Inverter

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2.1MW

Photovoltaic Project in Jixian,Heilongjiang Province

◀◀◀ 350kW String Inverter

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String-C&I

HOPEWIND

417.6kW

Shenzhen Airport Floating Photovoltaic Project

110kW String Inverter ▶ ▶ ▶

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5.18MW

Infinitus Yingkou Plant Photovoltaic Project in Shandong Province

◀◀◀ 110kW/60kW String Inverter

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660kW

Post Logistics Sorting Center Photovoltaic Project for Yishui Bus Station, Shandong Province

110kW String Inverter ▶ ▶ ▶

HOPEWIND

9.5MW

Jiangsu Xuzhou High-Tech Industrial Development Zone C&I PV Project

50kW/60kW/100kW/110kW String Inverter ▶▶▶

17MW

Shandong Qingdao Commercial and Industrial Rooftop PV Project

◀◀◀ 50kW/110kW/320kW/350kW String Inverter

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6.4MW

Jiangsu Xuzhou Rooftop
Distributed Photovoltaic Project

225kW/320kW String Inverter ▶ ▶ ▶

HOPEWIND

6.5MW

Liaoning Dalian Distributed Photovoltaic Project

◀◀◀ 225kW String Inverter


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10MW
Jiangchuan District String Inverter
Photovoltaic Project in Yuxi, Yunnan Province
225kW/320kW String Inverter

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15.78MW

Distributed Photovoltaic Project in
Guangrao, Dongying, Shandong Province

350kW String Inverter ▶ ▶ ▶

HOPEWIND

9.5MW

Distributed PV Project in Shizuishan,Ningxia

◀◀◀ 33kW/50kW/110kW String Inverter

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15MW

Tianjin C&I Photovoltaic Power Generation Project

225kW String Inverter ▶▶▶

HOPEWIND

7.361MW

Guangdong Zhaoqing XEDA Shoe Industry C&I Rooftop PV Project

◀◀◀ 225kW / 125kW / 80kW String Inverter

HOPEWIND

5.9MW

Liaoning Yingkou Thermal Power Plant Rooftop

+ Ground PV Power Project

◀◀◀ 225kW / 80kW String Inverter

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4.25MW

Guangdong Shanwei Haifeng Distributed Photovoltaic Project

◀◀◀ 225kW String Inverter

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2.6MW

Shaanxi Xi'an Locomotive Maintenance Section Distributed Photovoltaic Project

110kW / 50kW / 33kW String Inverter ▶▶▶

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1.26MW

Zhejiang Huzhou C&I Photovoltaic Rooftop Project

◀◀◀ 100kW / 110kW String Inverter

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1.3MW

Zhejiang Wenzhou Rooftop Distributed Photovoltaic Project

◀◀◀ 100kW / 110kW String Inverter

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2.21MW

Yunnan Wenshan Photovoltaic Power Generation Project

100kW、70kW、50kW String Inverter ▶▶▶

540kW

Henan Luohe Wuyang String Distributed Project

◀◀◀ 60kW String Inverter

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9MW

Huizhou 9MW C&I Rooftop Photovoltaic Project

◀◀◀ 22kW / 30kW / 60kW / 100kW / 110kW String Inverter

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10MW

C&I Rooftop Photovoltaic Project in Zhangzhou,Fujian Province

225kW String Inverter

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6.358MW

C&I Rooftop Photovoltaic Project in Nantong,Jiangsu Province

◀◀◀ 350kW String Inverter

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3.1482MW

C&I Rooftop Photovoltaic Project in Suzhou, Jiangsu Province

◀◀◀ 225kW String Inverter

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4.8MW

C&I Rooftop Photovoltaic Project in Wuxi, Jiangsu Province

225kW String Inverter ▶▶▶

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6MW

C&I PV Project in Junhan Industrial Park, Huizhou, Guangdong Province

◀◀◀ 225kW String Inverter

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5MW

High voltage grid connection C&I PV Project in Fuzhou,Fujian Province

◀◀◀ 225kW String Inverter

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480MW

Shandong Dezhou Qihe Whole County Promotion Project

◀◀◀ 10kW~110kW String Inverter

Anhui Province

Shandong Province

Shanxi Province

Zhejiang Province

Hebei Province

Henan Province

Tibet

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Overseas Cases

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1.35MW

Ground-Mounted Solar Plant at a Textile Factory in Paldi Kankaj, Gujarat, India

◀◀◀ 110kW String Inverter

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30MW

Sand Town Solar 30MW Project in Perak,Malaysia

◀◀◀ 385kW String Inverter, MV Transformer Station

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100kW

Photovoltaic Project in Jinan County, Jeollabuk-do, South Korea

◀◀◀ 60kW String Inverter

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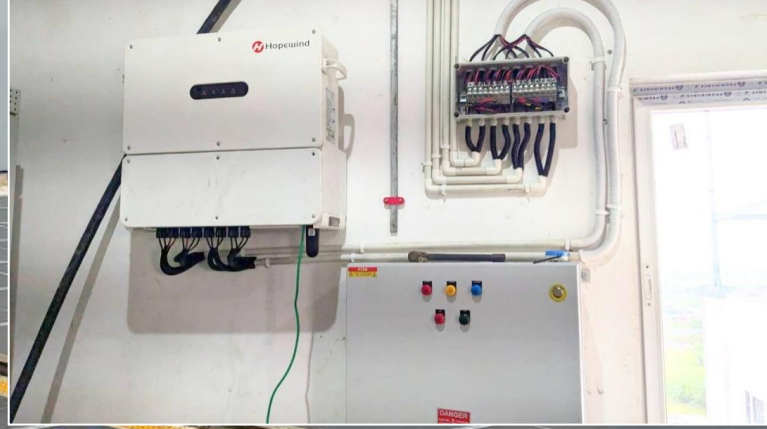

83kW

C&I Photovoltaic Project at a chemical factory in Bharuch, India

75kW String Inverter ▶▶▶

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300kW

C&I Photovoltaic Project in Gyeongsangnam-do, South Korea

◀◀◀ 110kW String Inverter

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200kW

Privately Invested Power Station in Gyeongsangnam-do, South Korea

◀◀◀ 60kW String Inverter

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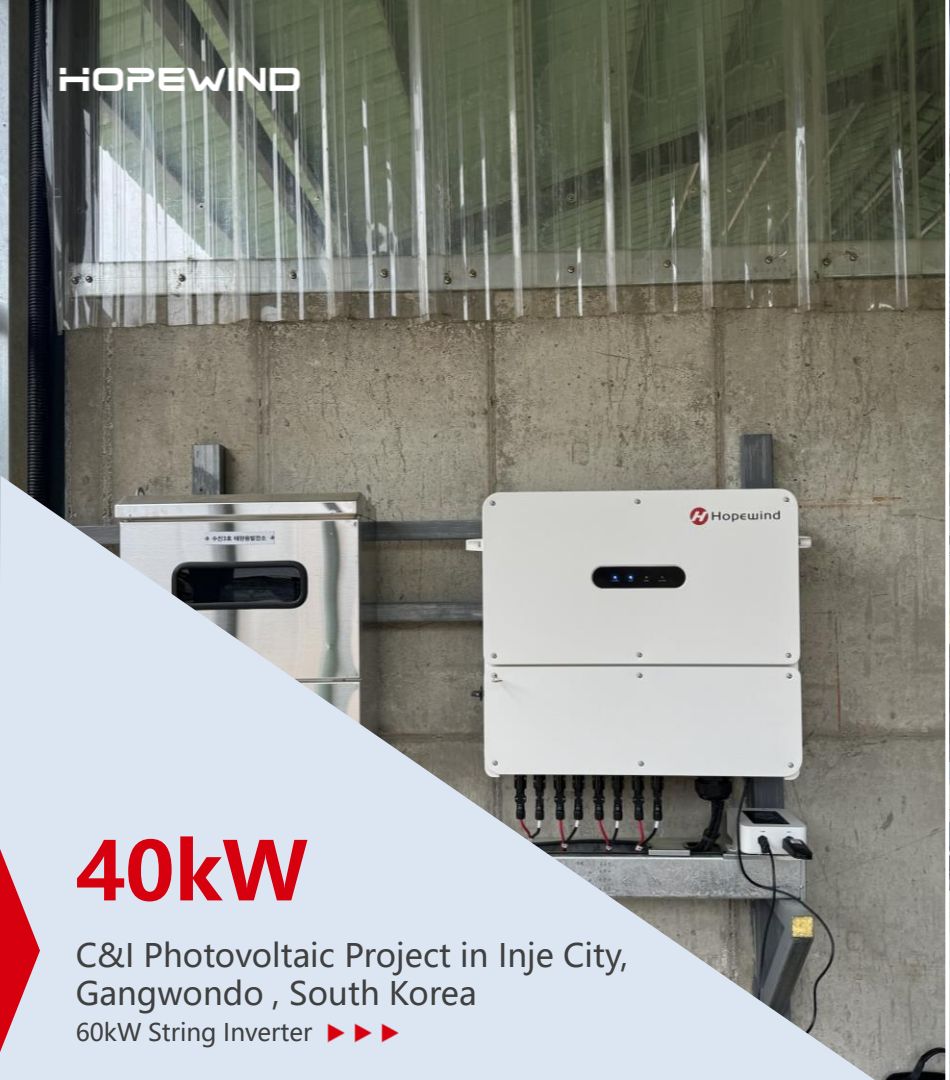

40kW

C&I Photovoltaic Project in Inje City, Gangwondo , South Korea

60kW String Inverter ▶▶▶

100kW

C&I Photovoltaic Project in Jinju City, Gyeongnam, South Korea

◀◀◀ 60kW String Inverter

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200kW

Photovoltaic Project in Kimje-City, Jeonbuk, South Korea

110kW String Inverter ▶▶▶

135kW

Photovoltaic Project in Hapcheongun, Gyeongnam, South Korea

◀◀◀ 60kW / 110kW String Inverter

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260kW

Photovoltaic Project in Cheongju-City, Chungbuk, South Korea

◀◀◀ 60kW / 110kW String Inverter

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100MW

Hunutlu Power Plant in Adana,Turkey

40kW/50kW/60kW/225kW String Inverter ▶▶▶

12MW

Tutqu-Doku SPP PV project in Turkey

◀◀◀ 110kW String Inverter

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2.7MW

Turket Meat Factory C&I PV Project in Bursa,Turkey

◀◀◀ 100kW String Inverter

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1MW

PV project in Pyeongchang,Gang won-do,South Korea

◀◀◀ 50kW String Inverter

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1.56MW

Greenwatt Factory C&I PV project
in Bursa,Turkey

◀◀◀ 60kW/110kW String Inverter

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5MW

PV Project in Van city,Turkey

◀◀◀ 110kW String Inverter

HOPEWIND

2.7MW

Pronen Factory PV Project in Denizli,Turkey

◀◀◀ 100kW String Inverter

HOPEWIND

1.2MW

C&I PV Project in izmir,Turkey

◄◄◄ 100kW String Inverter

HOPEWIND

689kW

Textile Factory PV Project in Turkey

◀◀◀ 75kW/100kW String Inverter

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360kW

Turkey

◀◀◀ 60kW String Inverter

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1.6MW

Turkey

HOPEWIND

Residential Case

Vietnam

◀◀◀ 8kW String Inverter

HOPEWIND

Residential Case

Vietnam

◄◄◄ 8kW String Inverter

HOPEWIND

C&I Case

Vietnam

◀◀◀ 70kW String Inverter

HOPEWIND

1MW

Vietnam

70kW String Inverter ▶▶▶

HOPEWIND

C&I Case

Brazil

12kW / 20kW / 30kW / 60kW String Inverter

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Residential Case

Brazi

8kW / 30kW / 36kW / 75kW String Inverter ▶▶▶

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Residential Case

Brazil、Pakistan

◀◀◀ 5kW / 8kW / 10kW String Inverter

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700kW

South Korea

◀◀◀ 50kW String Inverter

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Solar Power Plant

South Korea

◀◀◀ 50kW String Inverter


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HOPE FOR A GREENER WORLD
THANK YOU


HOPEWIND
THANK YOU
180GW+ SHIPMENTS WORLDWIDE