HOPEWIND

Stock Code: 603063

Shenzhen Hopewind Electric Co., Ltd.

Crystal waters and Lush Mountains Are Invaluable Assets.

Hopewind and you
contribute to environmental protection

Renewable energy delivery capacity

235GW+

Equivalent to **468+ million tons**

carbon dioxide emissions reduced per year

Equivalent to planting

25.6+ billion trees per year

About Hopewind

Shenzhen Hopewind Electric Co., Ltd. (Stock Code: 603063) focuses on the R&D, manufacturing, sales and services of renewable energy & electric drive products, including products for wind power generation, photovoltaic generation, energy storage, hydrogen production power supply products, special power supply, power quality and electric drive. Furthermore, Hopewind owns integrated independent R&D and testing platforms of high-power power electrical equipment and monitoring systems. Through innovation in technology and service, Hopewind continuously creates value for customers, and has become one of China's most competitive enterprises in the renewable energy field.

Renewable Energy Field	In the field of wind power, Hopewind Provides 750kW~30MW wind Power converters, Pitch Inverter, Yaw Inverter, and Energy Management System, etc. In the field of solar power, Hopewind Provides 3kW~385kW PV grid-tied inverters and 3000kVA~9000kVA MV Transformer Station. In the field of energy storage, Hopewind provides 145kW~250kW power conversion system, 1MW~10MW PCS turnkey station as well as EMS and other equipments, which widely used in generation side, grid side,user side and microgrid side. In the field of hydrogen energy, Hopewind Provides 500kW~20MW IGBT hydrogen production power supply and Intelligent Hydrogen Management System,applicable to various scenarios such as on-grid AC and off-grid DC.
Electric Drive Field	Provide a complete set of 0.75kW~22.4MW low-voltage and 4MVA~102MVA (single inverter) medium-voltage variable frequency drive solutions, widely used in metallurgy, petroleum and petrochemical, mining machinery, port cranes, distributed energy power generation, large-scale test platforms, marine equipment, textiles, chemicals, cement, municipal and other various industrial applications.
Special Power Supply Field	Provide 500kVA~150MVA multifunctional grid simulators, which can be used in wind power, photovoltaic, energy storage, hydrogen energy, SVG, and other fields.
Power Quality Field	Provide 1Mvar~140Mvar STATCOM products, which have been widely used in regional grids, wind power, photovoltaics, petrochemicals, coal, steel, oil fields and rail transit and other fields and industries.

About Hopewind

A Shares

Listed on the Main Board of the Shanghai Stock Exchange in 2017

2 Areas

Specialized in renewable energy and electric drive products, shipping all over the world

10%

Of operating income invested in R&D

1400+

Intellectual property rights such as patents and copyrights

6

R&D manufacturing bases

20 Years+

Experience in power electronics product development

Company Culture

Corporate Vision

To become a world-class power conversion and control solution provider

Our Mission

To promote technological progress in the industry and create a better life for mankind

Values

Responsibility, integrity, innovation, pursuing excellence and growth with collaboration

Development History

Headquarters · Shenzhen

6 R&D and manufacturing bases: Shenzhen, Suzhou, Xi'an, Heyuan, Wuhan, Hungary

30+ Global service bases: Deployed worldwide, and provides comprehensive services for global customers

2007-2008

- Hopewind founded
- Mass shipment of wind converters core components

2009-2012

- Developed photovoltaic inverter
- 2.5MW full power converter is available
- Took the lead in undertaking R&D projects of the Ministry of Science and Technology

2013-2016

- Introduced China's first distributed photovoltaic inverter solution
- Introduced engineered type inverter
- Developed mutliple offshore wind power products
- Batch optimisation of multi-brand converters

2017-2019

- Listed on the main board of the Shanghai Stock Exchange
- Won the National Science and Technology Progress Award
- New bases established in Suzhou
- Large application of string inverters
- Developed energy storage business

2020-2023

- Obtained the world's first "Grid-forming" Inverter Certificate
- Established Xi'an R&D center and Heyuan manufacturing base
- Released and Largely applied the highest power 385kW string inverter
- Supplied VFD to China's first ultra-deep scientific well of over 10,000 meters depth
- Entered the hydrogen production field and achieved small batch applications

2024-Now

- Grid-forming products applied in multiple fields
- World's first application of 26MW offshore wind power converter
- World's first application of grid-forming PV power station
- Achieved breakthroughs across shipbuilding: pure electric vessels, shaft generators, and podded propulsion
- Established Wuhan R&D center and Hungary manufacturing base

Company Awards

350+ Awards

National High-tech Enterprise

National Science and Technology Progress Award

National Energy Science and Technology Progress Award

First Prize of Science and Technology Progress Award of China Renewable Energy Society

Special Prize of Yunnan Provincial Science and Technology Progress Award

Guangdong Green Factory & Jiangsu Green Factory

First Prize of China Electrotechnical Society Science and Technology Progress Award

National Manufacturing Single Champion Product (offshore wind power converter)

2025 China's Top 15 Photovoltaic Inverter Listed Companies (No. 7)

Top 6 China's Electrical Energy Storage PCS Shipments in 2024

Shenzhen Specialized, Refined, Unique, and Innovative SMEs

Special Prize of 2025 Power Innovation Award

2025 Global Top 100 New Energy ESG Ranking

2024 ESG Outstanding Corporate Governance Award

.....

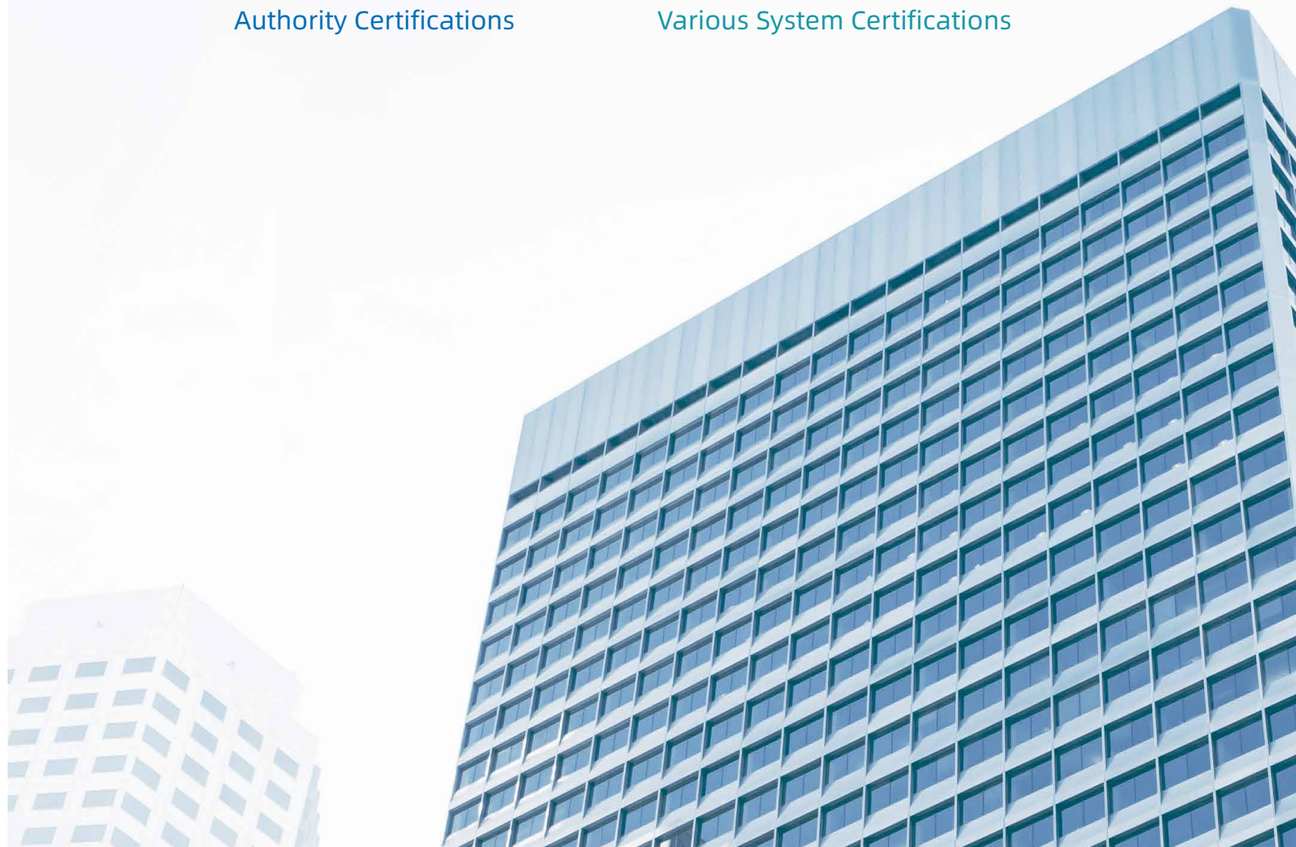
Certification

TÜV、BV、SGS、ITS、CQC、CGC、PCCC、CCS.....

Authority Certifications

ISO9001、ISO14001、ISO45001、QC80000、WEEE、BSCI...

Various System Certifications



Partners

国家电网 STATE GRID | 中国南方电网 CHINA SOUTHERN POWER GRID | 国家能源集团 CHN ENERGY | 中国华能 CHINA HUANENG | 国家电投 SPIC | 中国华电 CHINA HUADIAN CORPORATION LTD.

中国大唐集团公司 China Datang Corporation | 中国三峡 China Three Gorges Corporation | 华润电力 CR POWER | 中广核 CGN | SDIC 国家开发投资公司 | 中核集团 CNNC

中国节能 | 深圳能源 SHENZHEN ENEAGY | 广东省能源集团有限公司 GUANGDONG ENERGY GROUP CO., LTD. | 中国电建 POWERCHINA | 中国能建 CEEC | 京能集团

四川能投 | 陕西能源集团 SHAANXI ENERGY GROUP | Goldwind | 中国石油 | ENVISION 远景能源 | MINGYANG ELECTRIC 明阳电气

三一重能 SANY RENEWABLE ENERGY | 运达风电 WINDEY | 东方电气 DONGFANG ELECTRIC | 中国海装 CSIC | 上海电气 SHANGHAI ELECTRIC | 中国中车 CRRC

SinoAzure Wind Power 兴蓝风电 | 太原重工 | 中国绿发 CGDG | LONGi 隆基 | JinKO Solar Building Your Trust in Solar | JA SOLAR 晶澳太阳能

协鑫 GCL | risen 东方日升 | TCL 光伏科技 | Haier | 山东水发兴业 | 十一科技

SINOMA 中国中材 | 上海中绿新能源科技有限公司 | CHNT 正泰 | Trinasolar 天合光能 | 中来股份 JOLYWOOD | 湖南建工

广西建工 Guangxi Construction | 四川晟天新能源发展有限公司 | 陕西光伏产业有限公司 | 恒基伟业 | 艾科光电 | 海博思创 HYPER STRONG

新源智储 XYZ STORAGE | CATL 宁德时代 | 国轩高科 GOTION HIGH-TECH | SUNWODA 欣旺达 | ZTT 中天科技 | 昆宇电源 COSPOWERS

REPT 瑞浦兰钧 | 平高电气 PINGGAO ELECTRIC | 安诚能科 ACNEWENERGY | Tahoe | Narada 南都电源 | 科陆 美的工业技术

中船重工第七二研究所 | 四方 | 天启鸿源 | 库博能源 CUBENERGY TECHNOLOGY | TGOOD 特来电 | SOJO 双杰集团

特变电工 TBEA | 天合元氢 | HYDO tech | 国家电投吉林电力股份有限公司 SPIC JILIN ELECTRIC POWER CO.,LTD. | 哈尔滨锅炉厂有限责任公司 HARBIN BOILER COMPANY LIMITED | YAN GANG

CNTY 中国天楹 | Hygreen energy 中电丰业 | 兴燃科技 XINGRAN KEJI | 北元集团 BEIYUAN GROUP | 青骐骥 QING QI JI | 鼎际得

SCYN.X 赛克赛斯 | 亿华通 SinoHytec | 中国质量认证中心 CHINA QUALITY CERTIFICATION CENTRE | NWIC | 福建中试所 | HY test 华阳检测 HuaYang Testing

EMTEK 信测标准 300938 | 德纳检验检测 Dynamic Inspection and Testing | 国新能源 BESTENY | 河北建投 HCIG | 华源集团 | 广州发展集团股份有限公司 GDG

江苏华西新能源投资发展有限公司 | HBIS 河钢 | 首钢集团 SHOUGANG GROUP | 鞍钢集团 ANSTEEL | 包钢集团 BAOGANG GROUP | 沙钢集团 SHAGANG GROUP

BAOWU 武钢集团 | 柳钢集团 LIUZHOU STEEL GROUP | 中重科技(天津)股份有限公司 | 冶自欧博 | ARITIME 金自天正 | 佰能 BESTPOWER

中冶赛迪 | SINOPEC | 中国海油 CNOOC | SANY | 北京石油机械有限公司 BEIJING PETROLEUM MACHINERY CO.,LTD | BOMAV 西安宝美电气工业有限公司

宝石电气 | NGC 南高齿 | 东方电气集团东方电机有限公司 DONGFANG ELECTRIC MACHINERY CO.,LTD. | FLEN | 德力佳 | Ctest 重庆凯测

上海电机 | XEMC 湘电集团 | TZCO 太重集团 | CNPP 北方股份 | 中国铁建重工集团股份有限公司 CHINA RAILWAY CONSTRUCTION HEAVY INDUSTRY CORPORATION LIMITED

中煤集团 | 中国平煤神马 CHINA PINGMEI SHENMA | JINCHUAN 金川 | CSSC 中国船舶集团有限公司第七〇四研究所 | CSSC 中国船舶集团有限公司第七一一研究所 SHANGHAI MARINE DIESEL ENGINE RESEARCH INSTITUTE

中国中铁 | POWERMASTER MARINE 启豪船舶 | 招商局 CMDT | 哈尔滨电气集团有限公司 HARBIN ELECTRIC CORPORATION | 福建欧特

河北元翔 | 湖南金山世创 | BayWa r.e. | PVO INTERNATIONAL | FORTIS ENERGY | CLENERGY

agis | TECHLUX DISTRIBUIDORA | CENTRYSOL | arasenerji | TNA | Grace Go Green, Go Solar

DYNAMIC "Complete Solution Company" | CM Technology (주)씨엠테크놀러지 | MES Distribution | OCI Power | emba | IMI Group Since 1989

KIVANÇ ENERJİ | UEnergy | ACTIVITY Smart and renewable energy | ESFERA SOLAR | europower enerji | AlphaESS

TOSHELEKTROAPPARAT | CENTRY | sv solar warehouse | VLD SOLAR | SBG ENERGY | KVK ENERJİ A.Ş.

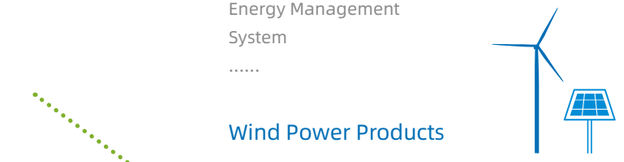
STAR | LDS SOLAR DISTRIBUIDORA | voltaenerji | INSIGHT ENERGY | VWIC | BAŞARI enerji

i-Solar Energy | SETAŞ | SASA | SOLARON | SYMM | ACME Leading Through Innovation

adani | PACE DIGITEK | Experience We make what matters | SUZLON POWERING A GREENER TOMORROW | INOXWIND

WEG | DOOSAN | aselsan | UNISON | Pioneer Wincon | .....

*No ranking



Wind Converter, Yaw Inverter and Pitch Inverter, Energy Management System
.....

Wind Power Products

PV String Inverter
PV Central Inverter
MV Transformer Station
.....

Photovoltaic Power Generation Products

Power Quality Products

Indoor STATCOM Static Reactive Power Generator
Outdoor STATCOM Static Reactive Power Generator
.....

Energy Storage Products

Power Conversion System (PCS)
PCS Turnkey Station
Energy Management System (EMS)
.....

Hydrogen Energy Products

IGBT Hydrogen Production Power Supply
Skid-mounted Integrated Hydrogen Production Device
Renewable Energy Hydrogen Production Energy Management System
.....

Electric Drive Products

Low Voltage General Purpose Inverter
Low Voltage High Performance Inverter
Low Voltage Engineering Inverter
Medium Voltage Engineering Inverter
Pumped Storage Motor Control Devices
Industry Customised Machines
.....

Special Power Supply Products

Multifunctional Grid Simulator Power Supply
Impedance Measurement Power Supply
Toroidal Field and Poloidal Field (TF/PF) Power Supply
Pulse-type Power Supply
.....

Grid-friendly Station Ecology

Wind Power Systems

Converter System

Pitch System

Main Control System

Solar Power Systems

PV String Inverter

PV Central Inverter

MV Transformer Station

Energy Storage Systems

PCS

PCS Turnkey Station

Hydrogen Production System

IGBT Hydrogen Production Power Supply

STATCOM

Information Flow

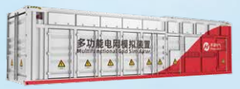
Electrical Flow

Local Monitoring hopeInsight

Power Station Ring Network Centre Switch

Electrical Monitoring

Multifunctional Grid Simulator



Boost Station

Main Transformer

PT/CT

Hopewind Cloud Service hopeCloud

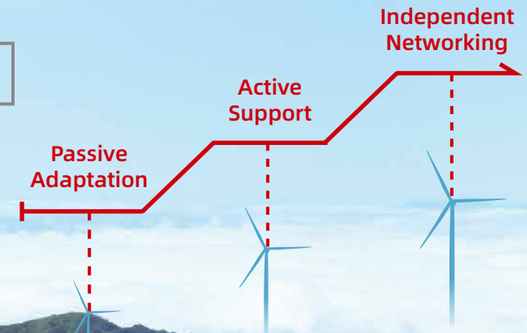
Remote Operation and Maintenance Assistant hopeScan

Remote Monitoring hopeView

Site Online Evaluation hopeEval

Energy Management System

Grid Dispatching System



Wind Power Generation

Doubly-fed Converter (690V/950V)

- 3.XMW~12.0MW, air-cooled
- 3.XMW~16.XMW, liquid-cooled

Doubly-fed Converter (10.5kV Stator)

- 5.0MW~12.0MW, air-cooled
- 5.0MW~16.0MW, liquid-cooled

Full Power Converter (690V/950V)

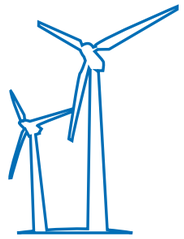
- 1.0MW~12.0MW, liquid-cooled

Full Power Converter (950V)

- 3.XMW~30.0MW, liquid-cooled

Full Power Converter (3300V)

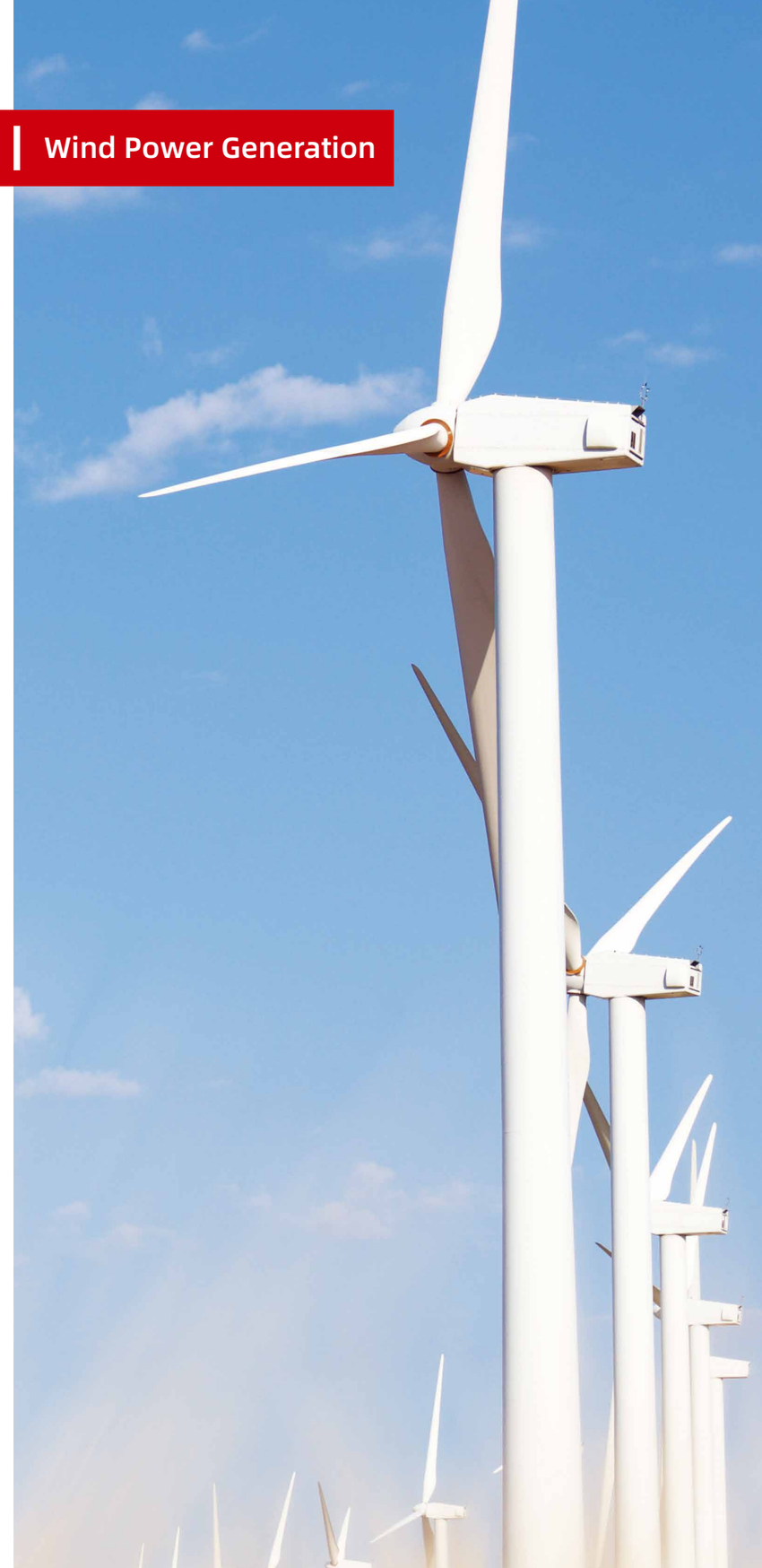
- 5.0MW~25.0MW, liquid-cooled



Leading Wind Power Converter Company in China

Obtained national science and technology progress award
Cutting-edge wind power converter and control system key technology, leading and participating in the drafting of industrial standards

Exported to Europe, America, Southeast Asia and Other Regions



Pitch System and Energy Management System

Pitch System

■ Suitable for 1.0MW~8.0MW wind turbines

Pitch Inverter

■ Suitable for 1.0MW~8.0MW wind turbines

Energy Management System

■ AGC, AVC, PFR

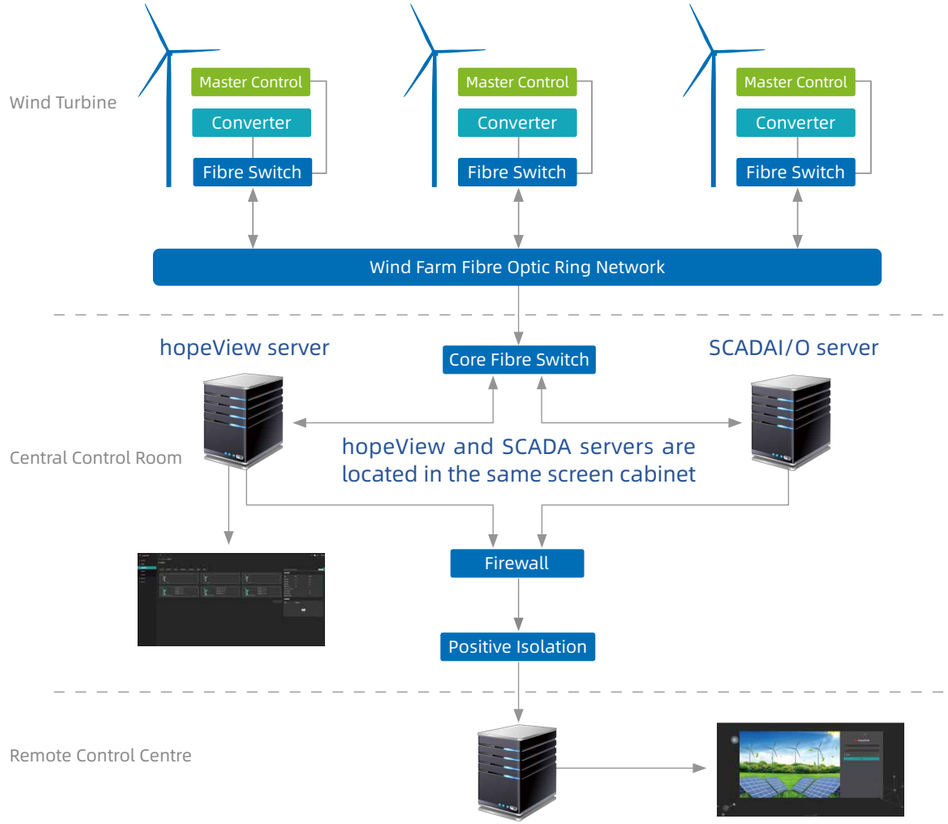
Yaw Inverter

■ 2.2kW~110kW

HIL

■ RTLab, RTDS, ModelingTech, ADPSS, dSpace, Speedgoat

Remote Intelligent Operation and Maintenance System



Data Collection

High-precision, multi-variable collection and presentation of electrical parameters, with remote oscilloscope and remote fault recorder functions

Data Statistics

Featured statistical reports which can accurately count and sort the detailed faults of converter

Data Analysis

In-depth data analysis, with expert system, intelligent fault diagnosis and trend prediction functions

Photovoltaic Generation

Tier 1

Tier 1 Photovoltaic inverter maker by BloombergNEF

China's Top 7 PV Inverter Supplier

Ranked among the top 7 Chinese inverter in 2025

String Inverter

■ Multiple MPPTs, distributed grid-tied connection

3kW~10kW (600V)

8kW~150kW (1100V)

250kW~385kW (1500V)

Central Inverter

■ Centralised grid-tied connection

500kW/630kW (1100V)

MV Transformer Station

■ Suitable for 385kW string inverters

3000kVA/6000kVA/9000kVA

Energy Storage

Power Conversion System

- ESHV Series 145~250kW String PCS
- ESHV Series 186~290kW 800Vac String PCS
- ESHV Series 215kW Liquid-cooling HV-box Integrated String PCS
- hopePCSHV Series 1.25~2.75MW Liquid-cooling Central PCS

PCS Turnkey Station

- 1.25MW~7.5MW String PCS Turnkey Station
- 5MW / 10MW Central PCS Turnkey Station
- 20ft/40ft container design for shipping

Energy Management System (EMS)

- Linux & Windows
- Pre-built solutions for multiple energy storage scenarios

System Integration

- Single container 100kWh~4MWh
- Customised battery and electrical container design

Early Strategic Planning and Large Shipment Volume

The cumulative shipments of Power Conversion System (PCS) have exceeded 15 GW, with GW-scale shipments for overseas energy storage products

Grid-forming Storage

Leading Grid-forming Control Technology with Batch Applications of Grid-forming PCS

Electric Drive

Electric Drive

High-end Intelligent Transmission Expert

First Prize of China Electrotechnical Society Science and Technology Progress Award
VFD Applied to the world's first automated drilling rig designed for 12,000 meters ultra-deep well

Low Voltage General Purpose Inverter (HV350)

- 380V
- 0.75kW~560kW

Low Voltage High Performance Inverter (HV510)

- 380V
- 0.75kW~560kW

Crane Inverter (HV610)

- 380V
- 0.75kW~400kW

Low Voltage Engineering Inverter (HV500)

- 220V, 380V, 690V
- 2.2kW~560kW

(HD2000)

- 400V, 690V, 1140V, 1380V
- 5.5kW~22400kW

Medium Voltage Engineering Inverter (HD8000)

- 1.65kV, 2.4kV, 3.3kV, 4.16kV, 6.6kV, 10kV, 13.8kV, 19.8kV
- 4MVA~102MVA (Single Inverter)

Special Power Supply

Low Voltage & Small Capacity

- 500kVA~2MVA multifunctional grid simulator
- AC 400V±10% / AC 690V±10% / AC 10kV±10%

Medium and High Voltage & Large Capacity

- 2MVA~20MVA multifunctional grid simulator
- AC 6kV±10% / AC 10kV±10% / AC 35kV±10%

High Voltage & Ultra-large Capacity

- 20MVA~150MVA multifunctional grid simulator
- AC 35kV±10%

Extensive Usage

Suitable for wind power, PV, energy storage, hydrogen energy, SVG, and other testing scenarios

Industry Benchmark

1st of 90MVA multifunctional grid simulator around the world,
1st if broadband impedance measurement application in China,
1st grid-forming characteristic testing for a wind farm serving as a primary power source,
1st grid-forming characteristic testing for a PV power station serving as a primary power source

Hydrogen

Hydrogen

Reliable Techonology

Based on high-power power electronics platform of wind power, solar power and energy storage
Product development based on wind+solar+storage high-power electronics testing platform, more than 300,000 sets of IGBT module system applications

Flexible Hydrogen Generation

Efficient, smart and safe, can be applied to on-grid and off-grid renewable hydrogen production, and provide system solutions for green power and hydrogen production

IGBT Hydrogen Production Power Supply

500kW~20MW

U_{dc}: 0V~1500V

- AC-DC level-1 topology
- AC-DC-DC level-2 topology
- DC-DC level-1 topology

Skid-mounted Integrated Hydrogen Production Device

- Including transformer, hydrogen production power supply, liquid-cooling system, etc.

Renewable Energy Hydrogen Production Energy Management System

- As the microgrid control center, coordinating power generation, power grid, load, energy storage, etc.

Power Quality

STATCOM

(3kV~10kV)

■ 1Mvar~15Mvar

Direct-connection type

Air/Water/Air conditioned cooling

Indoor & outdoor (container type, prefabricated cabin type)

Conventional & customised (high prototype, offshore type, automatic bypass redundant type)

(10kV~35kV)

■ 1Mvar~140Mvar

Direct-connection type, step-down type

Air/Water/Air conditioned cooling

Indoor & outdoor (container type, prefabricated cabin type)

Conventional & customised (high prototype, offshore type, automatic bypass redundant type)

Strong Grid and Environmental Adaptability

The First Equipment Manufacturer In China to Pass the On-site STATCOM High/Low-voltage Ride-through Test of the Electric Power Research Institute

Power Quality

Innovation Platform

Platform-based R&D framework
Matrix project management
Owned multiple CNAS professional laboratories with advanced equipment and perfect management

20+

Years of development experience

Core technical team and management team
More than 20 years' experience in power electronic product development

10%

Of operating income is invested in R&D

Up to 10% of operating income is spent on R&D investment

1400+

Intellectual property rights such as patents, works, etc.

The company has completely independent intellectual property rights. Hopewind has completely independent intellectual property rights with 1478 patents applied and 878 patents authorized (159 invention patents)
* By December 2025

Hopewind has an advanced experimental platform for renewable energy power generation and transmission, and has complete scientific testing and inspection capabilities for the full range of products.

3 Research Centers

- Guangdong Province Wind Turbine Electric Control Equipment Engineering Technology Research Centre
- Shenzhen Wind Turbine Electric Control Equipment Engineering Research Centre
- Shenzhen Engineering Research Center Of Grid-forming Energy Storage

3 Contracted Laboratories

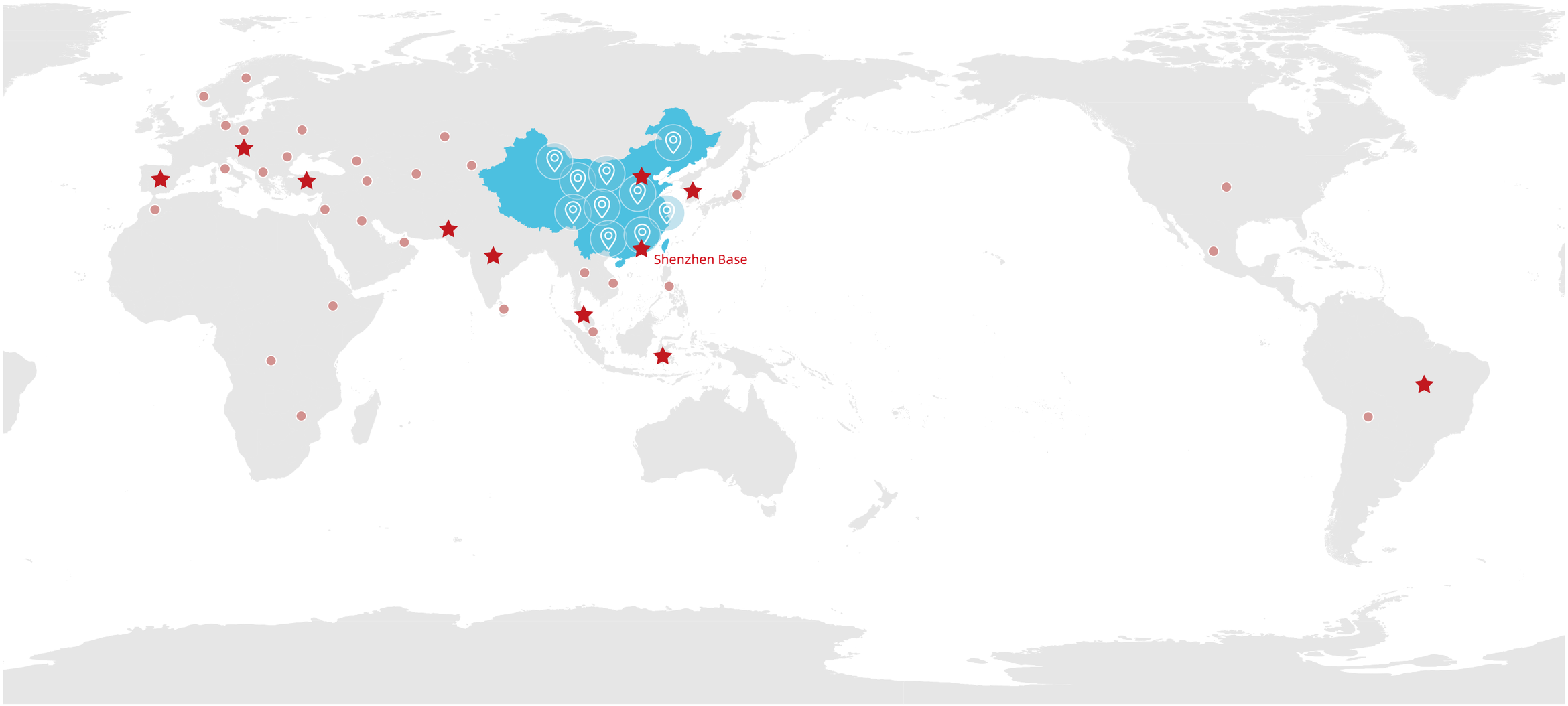
- CNAS laboratory
- TÜV Witness Laboratory
- Jianheng Signed Laboratory

Service Map

Global Service: share clean energy and mutual benefit with the world

Business spread across Asia, Europe, Africa, South America and North America

- 24/7 fast response
- High quality, fast and efficient
- marketing@hopewind.com



Global Service Base Major Country of Projects

Wind Power Generation Cases

Difficulties of Electrified Train Crossing

Sanmenxia, Henan
The world's first solution to the problems caused by the crossing of electric trains
Three-phase voltage unbalance problem

Hopewind doubly-fed wind power converter

Solve the Problem of Low Frequency Fluctuations

Hebei Zhangbei Wind Farm
Provide solutions to low-frequency fluctuations of wind farms
Adapt to fluctuating grids, long-term stable operation

Hopewind "low frequency suppression" algorithm

Adaptation to Ultra-low Temperature Environment

Inner Mongolia Phaeton Liang
Extreme weather areas, heavy sands, long cold winters
Snow and ice accumulation, extreme temperature around -38℃

Hopewind air-cooled doubly-fed ultra-low temperature converter

Batch Operation of Plateau/ Super Plateau Models

Tibet, Yunnan, Qinghai, Ningxia, Guizhou, etc.
3000m, 4000m, 5000m above sea level
Large diurnal temperature difference, low air pressure, high humidity, and frequent thunderstorms

---

Hopewind High Prototype/Ultra High Prototype Wind Power Converter

Batch Application of Offshore Models

Guangdong, Fujian, Jiangsu, Zhejiang and Shanghai, Liaoning, etc.
High operation and maintenance costs, increased requirements for converter reliability, high levels of humidity and salt spray which results in corrosive environments

---

Hopewind offshore wind power converter

Batch Application of Overseas Projects

United States, Mexico, Italy, South Korea, Vietnam, etc.
Used in different wind farm environments to achieve high efficiency and low failure rate

---

Hopewind full power/dual-fed wind power converter

Batch Application for Grid-forming Wind Farms

Gansu Guazhou, Guangdong Zhanjiang
The world's first grid-forming wind farm has been fully put into operation
The black start test for the floating grid-forming offshore wind farm has been completed

---

Hopewind doubly-fed wind power converter

Application for Ultra-high Power Offshore Wind Farm

Shandong, Fujian
The application of the world's largest 26MW offshore wind turbine generator system, as well as multiple 18MW offshore wind turbine generator systems

---

Hopewind full-power wind power converter

Photovoltaic Power Generation Cases

Roof Applications

China: Guizhou, Hubei, Shandong, Dalian,
Brazil, and Turkey etc.
Residential roofs, industrial and commercial roofs
Increased power generation and profit

Hopewind string inverter

Poverty Alleviation Projects

Baoding, Shijiazhuang, Lu'an, etc.
Actively respond to the "Targeted Poverty Alleviation" policy
Adjusted measures to local conditions, beneficial to many towns

---

Hopewind string inverter

Extreme Environment Applications

Xinjiang,Qinghai,Gansu,Sichuan, Inner Mongolia, etc.
Windy and sandy, high / low temperature, High Altitude
Maximum temperature 50℃, maximum altitude 4,200m

Hopewind central/
string Inverter

Complex Mountain Scenarios

Hebei, Shanxi, Hunan, Guangxi, etc.
Complex layout of photovoltaic modules for rugged mountains and undulated terrains

---

Hopewind central/string inverter

Agriculture, Fishery and Floating Solar Combination

China: Anhui, Liaoning, Guangdong, Zhejiang, Vietnam, etc.
Adaptable on-top deployment for grain farming and fish farming affected by weather, region, environment, etc.

Hopewind central/string inverter

Grid-forming PV Applications

World's first application of grid-forming photovoltaic power station
Actively responds to power grid frequency changes, with island operation and black start capability

---

Hopewind PV grid-forming inverter

Energy Storage Cases

Power Generation Side

China: Inner Mongolia,Tibet, Shanxi, South Korea, etc.
Renewable energy/thermal power plant and energy storage
Improve the frequency modulation ability to ensure grid stability
---
Hopewind PCS equipment
PCS turnkey station

Grid Side

Henan, Hebei, Ningxia, Guangdong, etc.
Solve grid peak and frequency modulation
Alleviate power supply problems

Hopewind PCS equipment

Super Capacitor Energy Storage

Ningbo, Zhejiang
National super capacitor demonstration project
Complex application for equipment working conditions

Hopewind PCS and a complete set of electrical equipment integration

Flywheel Energy Storage

Zhangjiakou, Hebei
Modulate grid frequency
Provide an overall integrated solution except flywheel

Hopewind PCS, transformer, high and low-voltage cabinet, system integration

User Side

Beijing, Jiangsu, Guangdong, Zhejiang, Shandong, etc.
Balanced peak and valley electricity output by peak load shifting
Off-grid running for emergent power supply

Hopewind PCS turnkey station
PCS off-grid parallel controller

Microgrid

Shaxi, Yunnan
Improved power supply stability
Integrated solution of solar+energy storage+charging with on and off-grid switching, which is difficult to deploy
---
Hopewind PCS, charging pile, inverter

Electric Drive Cases

Metallurgical Steel Rolling

Hebei, Tianjin, Fujian, Guangxi, etc.
The frequency converter is used in the main rolling and auxiliary drive of the whole steel rolling line.
Blast furnace hoisting, CDQ lifting, etc.

More than 100 large and medium-sized steel mill customers
More than 500 steel mill application sites

Pipeline Transportation

China National Pipeline Network Gansu Zhangye Compressor Station
The first Chinese-made medium-voltage IGCT five-level 24MW frequency converter is applied in the field of natural gas transmission
---
Hopewind HD8000 series inverters are used in the replacement of imported electric drive inverters for large-scale compressors in petroleum pipelines

Oil Drilling

Xinjiang, Chongqing, Shandong, Hubei, etc.
Used in batches of oil gas fracturing, top drive, 5000m~15000m oil rig platform oil-to-electricity projects and pumping units, etc.

Hopewind provides air-cooled and water-cooled multi-drive solutions
Excellent control performance, high power density, stable operation

Large-scale Test Bench

Jiangsu, Chongqing, Shanghai, Hunan, etc.
1MW~24MW wind power gearbox test platform
Motor drag test platform, loading platform, etc.

Hopewind provides a complete and customizable set of mature solutions for medium and low-voltage motors/gearboxes test platform

Mining Machinery

35m³ electric shovel, Xiangdian 120t/220t electric-powered mining dump truck
110t diesel-powered mining dump truck
Mine explosion-proof movement, etc.

Hopewind provides air-cooled and water-cooled multi-drive solutions

Hoisting Machinery

Traveling cranes, portal cranes
Dock grab, gantry crane, etc.

Hopewind provides a series of highperformance high-end inverters
Widely used in major ports and docks and greatly improves the safety of hoisting machinery system

Special Power Supply Cases

1 Renewable Energy Stations Grid-connected Testing

Simulates various grid conditions for centralized and distributed renewable energy stations to verify the stability and reliability of grid-connected equipment and obtain grid connection certification

2 Grid-forming Stations On-site Testing

Performs multiple grid-support tests for wind, PV, and energy storage grid-forming stations to verify the adaptability of grid-forming equipment under weak-grid

3 Large Test Bench

Includes national-level facilities such as a 25 MW offshore wind power testing and inspection base and a system-level demonstration platform for energy storage stations, enabling full-condition simulation of complex grid environments

4 Overseas Market Applications

Provides standardized test platforms that accurately replicate various grid operations for equipment type testing and factory testing

5 Harsh Environments Adaptability

Extensive environmental adaptability, ensuring stable operation under extreme conditions such as high/low temperatures, salt spray, sandstorms, and humid climates

We can supply multifunctional grid simulators from 500 kVA to 150 MVA, customized for different voltage levels and testing requirements. mobile/fixed type as an options, and air-cooled or water-cooled solutions, meeting the requirements of AC source and load integrated.

Hopewind's references are founded in various regions of China. 1st grid-forming characteristic testing be done in workwide for wind farm serving as a primary power source in Gansu, and for PV power station testing in Xinjiang, setting as benchmark in market. Products are also exported to overseas, including India and Turkey.

Hydrogen Energy Cases

Renewable Hydrogen Generation

1

Hydrogen generation with wind and solar power
Quick response and great grid adaptability
Well adapted to grid fluctuations
Continuous power output under extreme operating conditions

Traditional Water-electrolysis Hydrogen Production

2

Stable, safe, long-term operation
Matched with high-capacity ALK or PEM electrolyzers
High efficiency, high reliability, low harmonics, high power factor
Grid-friendly for plant power systems

Hopewind provides 500kW~20MW high-power hydrogen generation power supply solutions in a variety of configurations—including air- or liquid-cooled, indoor or containerized, IGBT, SiC or SCR technologies—and support integrated solutions for smart management of renewable hydrogen production.

Hybrid System Hydrogen Generation Applications

3

Dual power input for plant PV and grid power
Multiple operating modes with PEM/
Real-time system power generation tracking with ALK electrolysis tanks MPPT to ensure optimal hydrogen production power
Featured with power fed into grid function

"MV-to-DC" Integrated Solution

4

All-in-One Medium Voltage to DC Solution
Integrated design for easier delivery, transportation, and installation
Outdoor use, effectively reducing civil engineering costs
Customization supported to meet various specification requirements

---

Hopewind's IGBT hydrogen power supply products have been successfully deployed across China (in Gansu, Shaanxi, Yunnan, Ningxia, Jilin, Inner Mongolia, Liaoning, Hebei, Jiangsu) and overseas (in Australia, Italy), covering both on-grid and off-grid, AC and DC applications. Hopewind is also the first manufacturer of power supplies for high-power MW-class IGBT hydrogen generation in China that manages to maintain a long-term and stable operation.

Power Quality Cases

Renewable Energy Industry

STATCOM has HVRT/LVRT and broadband operation capabilities Station reactive power linkage adjustment with accurate compensation

Traditional Power Industry

Provide solutions for Coal, Steel and Petrochemical industries for problems as high reactive power consumption, low-power factor, complex harmonic content, voltage fluctuations, etc.

High Altitude Environment

High adaptability and stability for environments of 3000m, 4000m or even 5000m altitude with severe challenges of large temperature difference, strong ultraviolet rays, high moisture and condensation

Marine Environment

Adapt to high pollution and humidity environments caused by high levels of salt spray

Desert/Loess Plateau Environment

STATCOM is designed to be highly protective that can adapt to strong sunlight and large temperature ranges, harsh environments which are dry and dusty

Renovation Project

Partial reutilization or overall replacement for original equipments with unstable conditions, high failure rate, troublesome and high cost maintenance

Hopewind provides a full range of STATCOM products from 3kV to 35kV, supporting multiple types of STATCOM such as direct-connection/step-down, air/water/air conditioned cooling, indoor/outdoor (container type, prefabricated cabin type), prototype, offshore type, etc.

Our STATCOM products have been widely used in many countries–Saudi Arabia, Norway, Thailand, Denmark, Vietnam, Myanmar, the DRC and other countries, as well as provinces and municipalities within China including Heilongjiang, Jilin, Liaoning, Inner Mongolia, Hebei, Henan, Shandong, Jiangsu, Zhejiang, Guangdong, Guangxi, Yunnan, Guizhou, Sichuan, Hunan, Anhui, Shaanxi, Shanxi, Gansu, Tibet, Jiangxi, Chongqing, Xinjiang, Hubei, Qinghai, Ningxia, Fujian, and Beijing.

To promote technological progress in the industry
and create a better life for mankind

Email: marketing@hopewind.com
Website: www.hopewind.com