上海致远
GHREPOWER

Shanghai Ghrepower Green Energy Co., Ltd.

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ZY.900.001EN(V2026.01)

上海致远
GHREPOWER

Make Distributed New Energy Within Reach

Company Profile

INTRODUCTION

Reliable small- and medium-sized WTGS supplier

10,000+ Wind & Solar Hybrid Systems Installed

Stock Code: 430324

120+ Patents & Certifications

Shanghai Ghrepower Green Energy Co., Ltd. (Stock abbr: Shanghai Ghrepower; stock code: 430324), founded in 2006 with a registered capital of USD 11 million, was successfully listed on China’ s National Equities Exchange and Quotations (NEEQ). It became one of the first renewable energy companies dedicated to renewable energy application solutions on the board.

Shanghai Ghrepower is a high-tech enterprise headquartered in Shanghai, specializing in renewable energy R&D, manufacturing, sales, operation and maintenance, and industrial investment. The company focuses on providing power solutions for telecommunications, military and civil use, commercial utilities, and industrial facilities, while also offering application solutions for microgrids, intelligent grids, and commercial power generation investments.

Driven by market demand and persistent technological innovation,we have obtained 123 independent intellectual property rights, including 27 invention patents, 4 PCT patents, and 16 software copyrights. Meanwhile, we actively participate in drafting national standards and have obtained CE, ETL, SGS, ISO 9001, ISO 14001, and IEC 61400 certifications.

Taking “Make Distributed New Energy Within Reach” as our mission, Ghrepower is committed to making renewable energy more economical and accessible. Embracing globalization, we aim to become a leading renewable energy application provider and contribute to a sustainable future for the planet.

Milestone

2020 - Now
Start to promote carbon neutral domestic and international double cycle strategy.
Import foreign distributed experience into China and fully promote carbon neutrality

2015-2019
Entered into the Japanese market
ClassNk certification with three models,set up a wholly-owned subsidiary.

2013-2015
Domestic communication base stations entered the period of comprehensive development
Domesticcommunication base station business market share exceeds 50%.

2013
Publicly Listed in the New Third Board (NEEQ)
Stock code:430324,became the first companyin the renewable energy application solutions.

2012
Full access to the North American market
The first FD16-30 wind turbine was exported to the United States, and America Ghrepower was established

2011
Full access to the European market
FD21-60 wind turbine customized design for ltaly development, successfully connected to the grid, and ltaly Ghrepower was established

2009
Overseas market development
The first FD13-50kW was exported to U.K., opening up internationalized strategy.

2008
Won the bid for China Mobile’ s centralized procurement
Became the successful bidder for China Mobile's centralized procurement of new energy base station power supply systems for the first time and rated “Outstanding Supplier” for many consecutive years.

2006
Shanghai Ghrepower established
Focusing on research, development, manufacturing, sales, operation and maintenance of small and medium sized WTGS.

Continuous Innovation from Products to Services

First-Class Production Control

Shanghai Ghrepower manufactures WTGS, controllers, inverters, blades, and other auxiliary equipment and components in strict accordance with its quality control system, ensuring the safety, reliability, and stability of the entire power generation system.

Excellent R&D Strength

Shanghai Ghrepower has a team of experienced and independent R&D professionals dedicated to wind energy application research, providing strong technical support for product innovation and system optimization.

Advanced Project Investment Philosophy

Shanghai Ghrepower actively explores overseas markets and has established branches in the United States, Italy, Canada, Japan, and Taiwan, China, to carry out small- and medium-sized WTGS project investments. The transformation from product sales to industry investment not only brings long-term and stable returns but also promotes sustainable industry development.

Improved Operation and Maintenance System

To provide customers with high-quality services, Shanghai Ghrepower has established a comprehensive service staff certification and management system, covering training, assessment, and qualification. The continuous improvement of service capabilities ensures reliable operation and high customer satisfaction.

Integrated Design Concept

Generator

Control system

Blade

Remote monitoring

Tower

Foundation

Major Product Line Technical Parameters

FD16

FD16-30

FD22

FD22-50

FD22-60

FD25

FD25-60

FD25-100

FD32

FD32-150

FD42

FD42-300

FD42-400

FD56

FD56-500

ZKW Series Controller

GNW Series Inverters

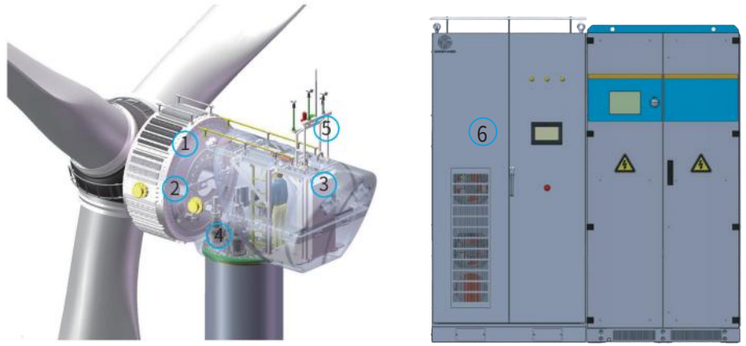
CUBE Remote Monitoring System

SerialCode	FD16	FD22		FD25		FD32	FD42		FD56
RotorDia.(m)	15.6	21.8		25		32.2	42		56
Model	FD16-30	FD22-50	FD22-60	FD25-100	FD25-60	FD32-150	FD42-300	FD42-400	FD56-500
Rated power(kW)	30	50	60	100	60	150	300	400	500
Sweep area per kilowatt(m^2/kW)	6.37	7.46	6.22	4.90	8.18	5.41	4.61	3.46	4.92
Rated wind speed (m/s)	10	8.6	9.5	10	9	9.8	10.5	12	10.5
AEP(MWh)@5m/s	69.3	143	152	205	170	343	591	631	1128
AEP(MWh) @5.5m/s	84.7	169	183	252	202	417	733	799	1376
Designed grade	IECIIIA	IECIIA		IECIIIA		IECS(DIIIA)	IECS		IECS(DIA)
Survival(m/s)	59.5	59.5		52.5		52.5	59.5		59.5
Speed Control	Stall	Pitch control							
Brake Mode	Mechanical/Electromagnetic	Pitch control/Mechanical/Electromagnetic							
Application Scenarios		Small wind farms,smart grids, microgrid systems, distributed power generation							

FD56-500

Product Features

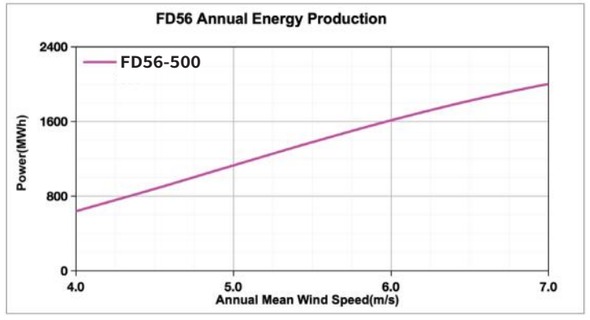
- Equipped with a low-speed permanent magnet direct-drive generator, eliminating the gearbox to reduce mechanical losses and maintenance requirements, ensuring high efficiency and long service life.
- Variable pitch control technology ensures stable power output under gust conditions and improves energy capture across a wide wind speed range.
- Multiple safety protection systems, including independent pitch control, mechanical braking, electromagnetic braking, and active yaw system, guarantee reliable operation under extreme conditions.
- Designed for highly efficient full power inverter operation, compliant with international grid standards and suitable for various grid connection scenarios.
- Directly connected to Low-Voltage 400V Grid, allowing energy to be consumed locally or transmitted to the distribution system, reducing transmission losses and improving overall system efficiency.
- Integrated SCADA monitoring system supports real-time operation monitoring, performance analysis, fault diagnosis, data reporting, and maintenance management.
- Suitable for distributed wind energy applications, including industrial parks, ports, oilfields, mines, villages, and areas with high electricity demand.

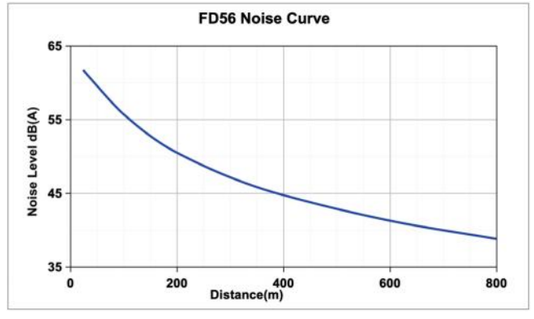


① Generator
② Braking Device
③ Control Box
④ Yawing Device
⑤ Anemometer
⑥ Converter

Figure 1 Nacelle structure diagram

Annual Energy Production and Noise Level

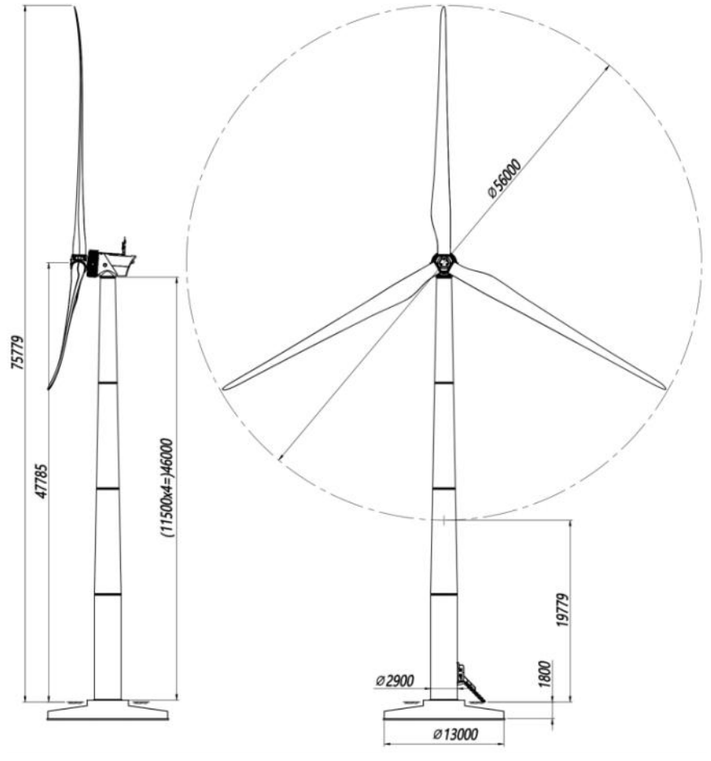




Annual mean wind speed(m/s)	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
FD56-500 AEP(MWh)	637	877	1128	1376	1610	1820	2000	2147	2261

Specifications

Model	FD56-500	Tower Height(m)	46
Design Class	IECS	Nacelle Weight (t)	28
Rated Power (kW)	500	Tower Weight(t)	42
Rotor Diameter(m)	56	Brake System	Pitch/Mechanical/Electromagnetic
Rated Wind Speed (m/s)	10.0	Speed Regulation	Pitch Control
Rated RPM(rpm)	29	Lightning Protection	Air Termination
Cut-in Wind speed (m/s)	2.5	Surface Anti-corrosion	C5
Cut-out Wind Speed (m/s)	18(10min),22(10s)	Blade Material	FRP
Extreme Wind Speed (m/s)	59.5	GeneratorType	Permanent Magnet Direct-drive Generator
Noise Level dB(A)	＜57.5(@80m)	Monitoring System	CUBE
OperatingTemperature(°C)	-20~50	Design life(year)	20
Grid-connected Access Mode	Low-Voltage 400V Grid		

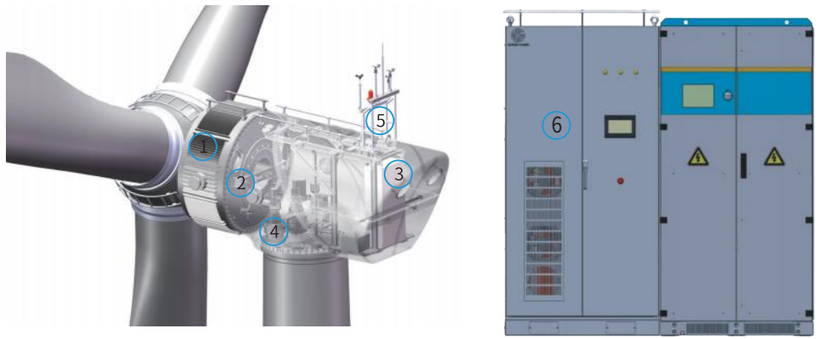


Unit:mm

FD42-300/FD42-400

Product Features

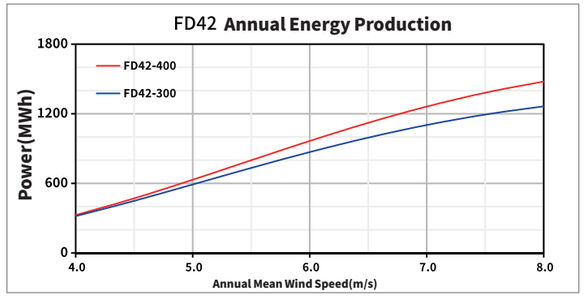
- Adopt a low-speed permanent magnet generator with direct-drive, gearless transmission design. The transmission system is highly efficient and provides a reliable long service life.
- Variable pitch control technology ensures stable power output during gust conditions.
- Multiple safety protection systems, including independent variable pitch control, mechanical braking, electromagnetic braking, and an active yaw system.
- Highly efficient full-power inverter, compliant with multiple international grid standards and suitable for various grid application requirements.
- Direct connection to the Low-Voltage 400V Grid, enabling access to nearby load distribution systems. Generated power can be consumed locally, while surplus power is exported to the grid, ensuring efficient energy transmission.
- SCADA monitoring system with comprehensive functions, enabling real-time monitoring, data reporting, fault diagnosis, and integrated operation and maintenance management.
- Suitable for distributed renewable energy applications in various scenarios, including industrial parks, ports, oilfields, mines, villages, and highway service areas.

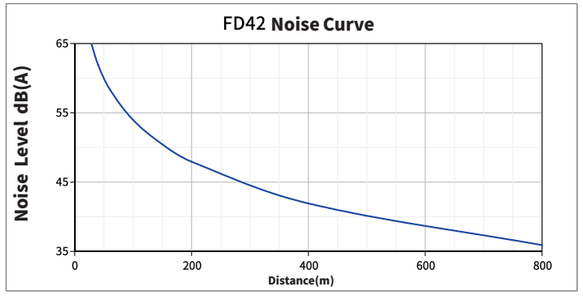


① Generator
② Braking Device
③ Control Box
④ Yawing Device
⑤ Anemometer
⑥ Converter

Figure 1 Nacelle structure diagram

Annual Energy Production and Noise Level

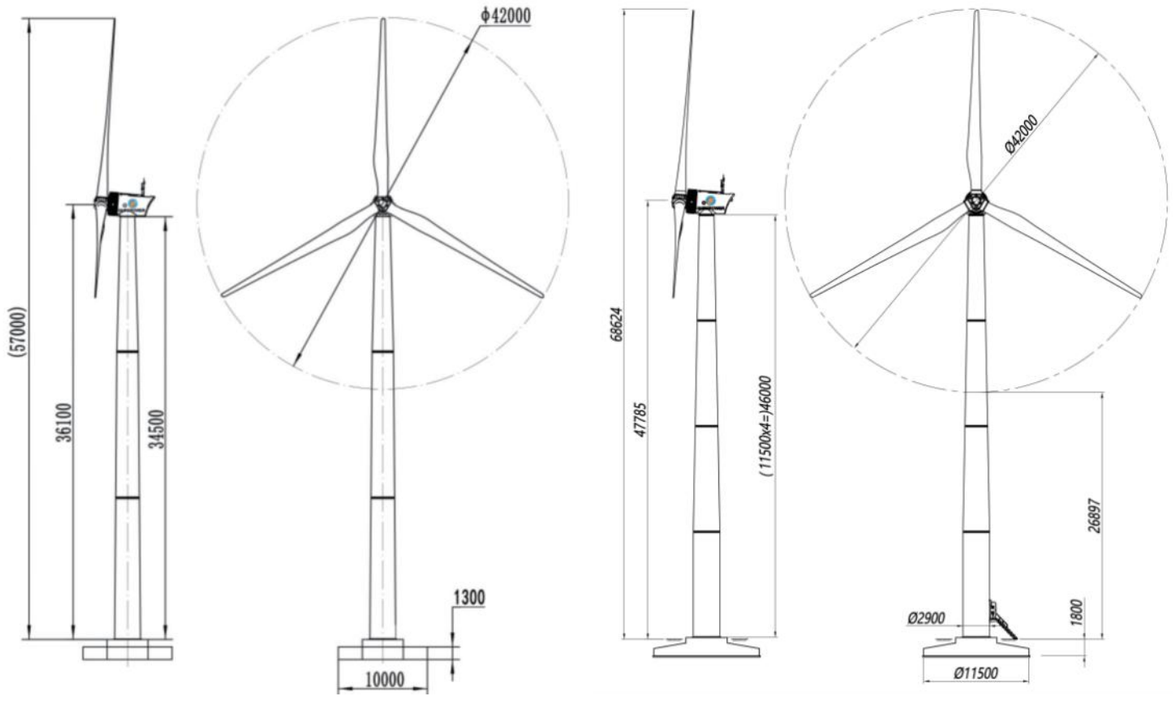




Annual mean wind speed(m/s)	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
FD42-400 AEP(MWh)	36	471	631	799	965	1122	1262	1381	1478
FD42-300AEP(MWh)	317	449	591	733	870	994	1103	1193	1264

Specifications

Model	FD42-300	FD42-400	Tower Height(m)	35/46
Design Class	IECS		Nacelle Weight (t)	25.0
Rated Power (kW)	300	400	Tower Weight(t)	24/42
Rotor Diameter(m)	42		Brake System	Pitch/Mechanical/ Electromagnetic
Rated Wind Speed (m/s)	10.5	12	Speed Regulation	Pitch Control
Rated RPM(rpm)	34	36	Lightning Protection	Air Termination
Cut-in Wind speed (m/s)	3		Surface Anti-corrosion	C5
Cut-out Wind Speed (m/s)	20(10min),24(10s)		Blade Material	FRP
Extreme Wind Speed (m/s)	59.5		GeneratorType	Permanent Magnet Direct-drive Generator
Noise Level dB(A)	＜58(@60m)		Monitoring System	CUBE
OperatingTemperature(°C)	-20~50		Design life(year)	20
Grid-connected Access Mode	Low-Voltage 400V Grid			



Unit:mm

FD32-150

Product Features

- Adopt a low-speed permanent magnet generator with a direct-drive, gearless transmission design. The transmission system is highly efficient and provides a reliable service with a long lifespan.
- Variable-pitch control technology ensures stable power output during gusty conditions.
- Multiple safety protection systems, including intelligent variable pitch control, mechanical braking, electromagnetic braking, and an active yaw system.
- Highly efficient full-power inverter, compliant with multiple national grid connection standards, and suitable for various grid application requirements.
- Direct connection to the Low-Voltage 400V Grid, allowing access to nearby load distribution systems. Generated power can be consumed immediately, while surplus power is exported to the grid, ensuring efficient energy transmission and utilization.
- SCADA monitoring system with comprehensive functions, enabling real-time monitoring, data reporting, fault diagnosis, and integrated operation and maintenance management.
- Suitable for distributed renewable energy applications in various scenarios, such as industrial parks, ports, oil fields, mines, villages, and highway service areas.

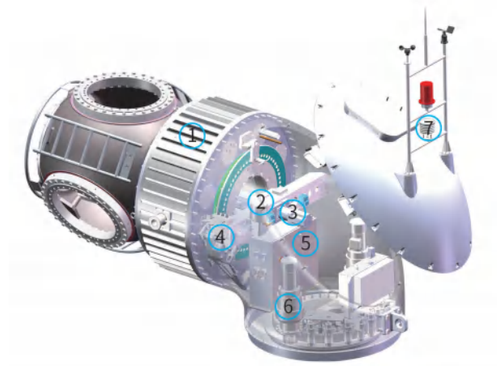


Figure 1 Nacelle structure diagram

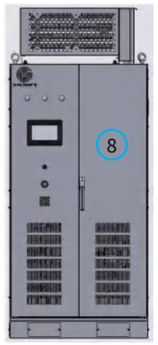
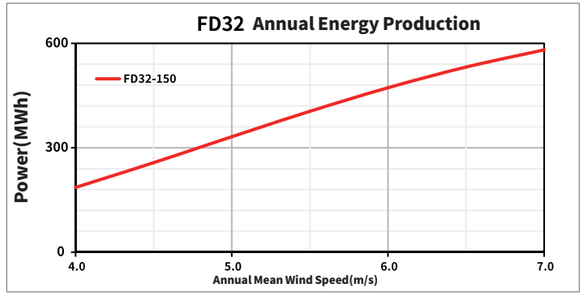
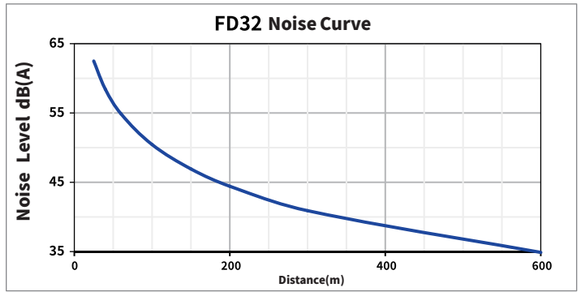


Figure 2

① Generator
② Lubrication
③ Pitch
④ Braking Device
⑤ Control Box
⑥ Yawing Device
⑦ Anemometer/Vane
⑧Controller & Inverter

Annual Energy Production and Noise Level

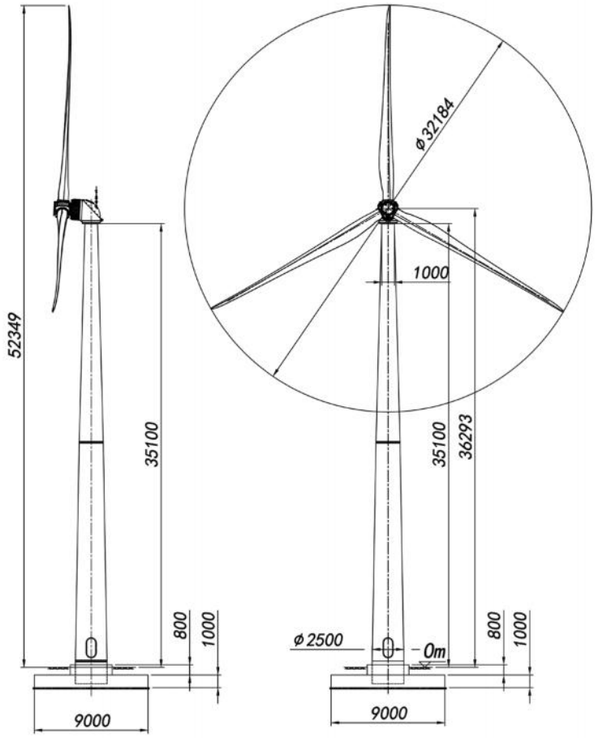




Annual wind speed(m/s)	4.0	4.5	5.0	5.5	6.0	6.5	7.0
FD32-150 AEP(MWh)	196	268	343	417	485	544	593

Specifications

Model	FD32-150	Tower Height(m)	35
Design Class	IECS(DIIIA)	Nacelle Weight (t)	9
Rated Power (kW)	150	Tower Weight(t)	18.2
Rotor Diameter(m)	32.2	Brake System	Pitch/Mechanical/ Electromagnetic
Rated Wind Speed (m/s)	9.8	Speed Regulation	Pitch Control
Rated RPM(rpm)	48	Lightning Protection	Air Termination
Cut-in Wind speed (m/s)	3	Surface Anti-corrosion	C5
Cut-out Wind Speed (m/s)	18(10min),22(10s)	Blade Material	FRP
Extreme Wind Speed (m/s)	52.5	GeneratorType	Permanent Magnet Direct-drive Generator
Noise Level dB(A)	＜58(@52)	Monitoring System	CUBE
OperatingTemperature(°C)	-20~50	Design life(year)	20
Grid-connected Access Mode	Low-Voltage 400V Grid		



Unit:mm

FD25-60/FD25-100

Product Features

- Compliant with Italy CEI 0-21, America UL 1741, Canada CSA C22.2 No.107.1-01, England G59/2, and IEC 61400 certifications.
- Permanent magnet direct-drive wind turbine system with active pitch control technology.
- Active pitch adjustment under gust conditions to ensure stable power output.
- Multiple safety protection systems, including intelligent variable pitch
- control, mechanical braking, electromagnetic braking, and an active yaw system.
- Full-power inverter isolation technology ensures the safe operation of the wind turbine generator (WTG).
- Suitable for small-scale wind farms, smart grids, and microgrids.

- Low noise: Noise is reduced through optimized and proven design practices.
- High power generation efficiency: Operating parameters are optimized by analyzing large volumes of operational data.
- Lower cost: Initial investment is reduced by integrating the controller and inverter inside the tower, eliminating the need for a separate control room installation.

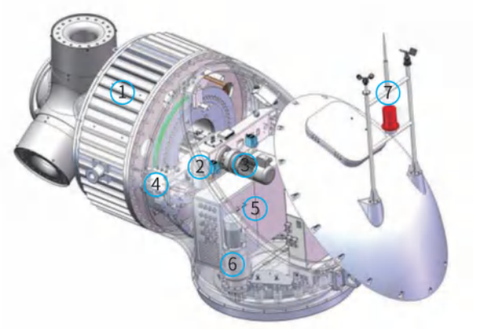


Figure 1 Nacelle structure diagram

Figure 2

① Generator
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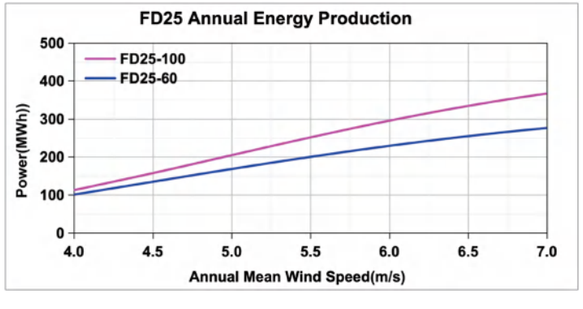
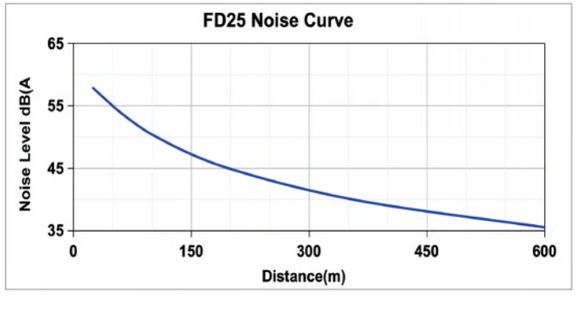
Annual Energy Production and Noise Level

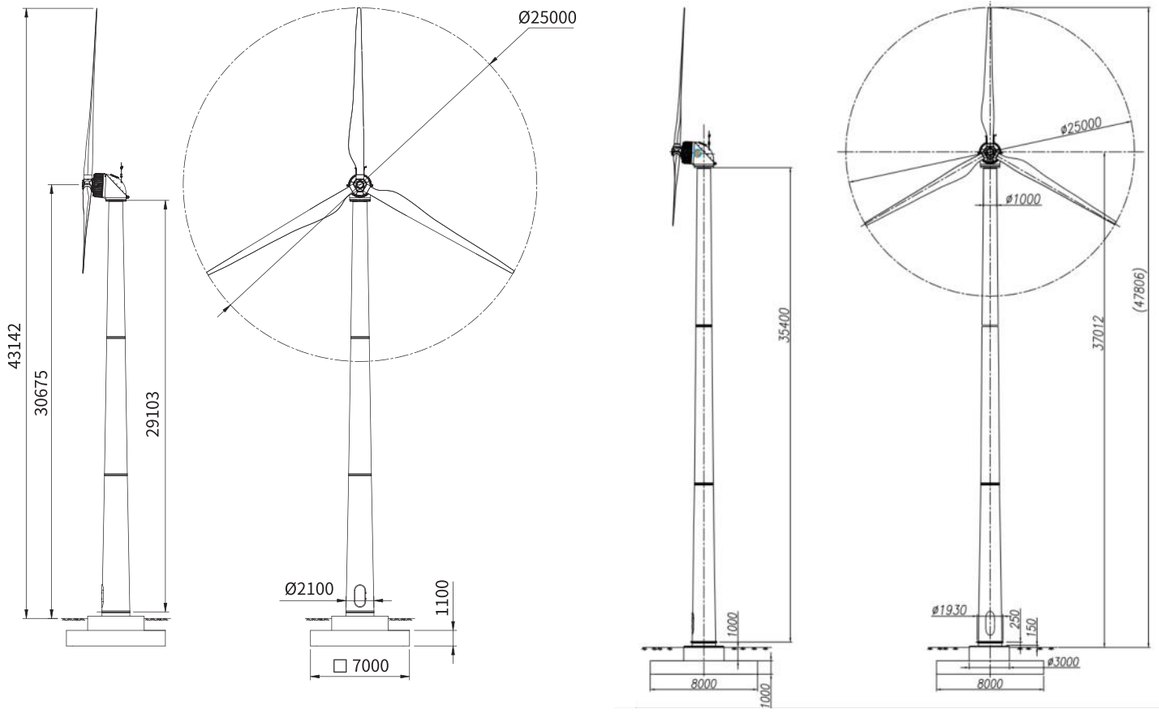




Annual mean wind speed(m/s)	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
FD25-60AEP(MWh)	100.9	134.8	168.4	200.3	229.3	254.9	276.4	293.8	307.1
FD25-100AEP(MWh)	112.7	157.5	204.8	251.7	295.6	334.5	367.2	393.1	412.4

Specifications

Model	FD25-60	FD25-100	Tower Height(m)	30/36
Design Class	IECIIIA		Nacelle Weight (t)	9.1
Rated Power (kW)	60	100	Tower Weight(t)	13.8/14.5
Rotor Diameter(m)	25		Brake System	Pitch/Mechanical/Electromagnetic
Rated Wind Speed (m/s)	9	11	Speed Regulation	Pitch Control
Rated PRM(rpm)	44	52	Lightning Protection	Air Termination
Cut-in Wind speed (m/s)	3		Surface Anti-corrosion	C5
Cut-out Wind Speed (m/s)	25		Blade Material	FRP
Extreme Wind Speed (m/s)	52.5		GeneratorType	Permanent Magnet Direct-drive Generator
Noise Level dB(A)	58		Monitoring System	CUBE
OperatingTemperature(°C)	-20~50		Design life(year)	20
Grid-connected Access Mode	Low-Voltage 400V Grid			



Unit:mm

FD22-50/FD22-60

Product Features

- Adopt a low-speed permanent magnet generator with a direct-drive, gearless transmission design, featuring high transmission efficiency and a reliable long service life.
- Variable pitch control technology to ensure stable power output during gust conditions.
  Multiple safety protection systems, including intelligent
- Variable pitch control, mechanical braking, electromagnetic braking, and an active yaw system.
- Highly efficient full-power inverter, compliant with on-grid standards of multiple countries and suitable for various grid application requirements.
- Directly connect to the Low-Voltage 400V Grid, supplying power to nearby loads and exporting surplus power to the grid, enabling efficient energy utilization.
- SCADA monitoring system with perfect functions enables real-time monitoring, report statistics, fault diagnosis, and integrated operation and maintenance management.
- Suitable for distributed new energy applications in various scenarios, such as industrial parks,ports, oil fields, mines, villages, and highway service areas.

- Low noise: Reduce noise by best practice designing.
- High power generation: Optimalize parameters setting by analyzing huge amounts of operation data.
- Lower cost: Reduce initial investment by integrating controller and inverter inside the tower and cutting controller room installation cost.

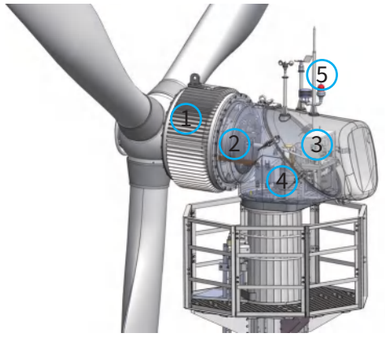
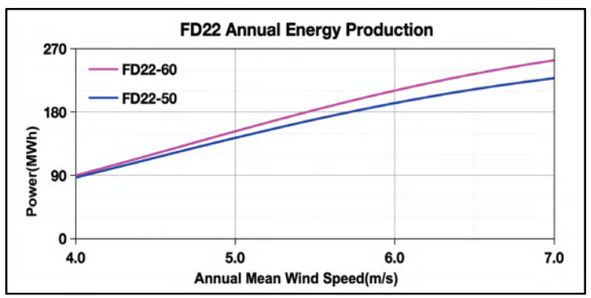


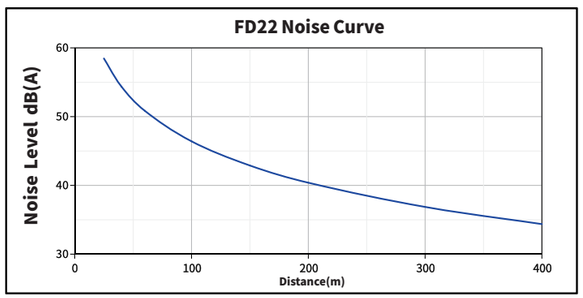
Figure 1 Nacelle structure diagram

Figure 2

① Generator
② Braking Device
③ Control Box
④ Yawing Device
⑤ Anemometer/Vane
⑥ Controller & Inverter

Annual Energy Production and Noise Level

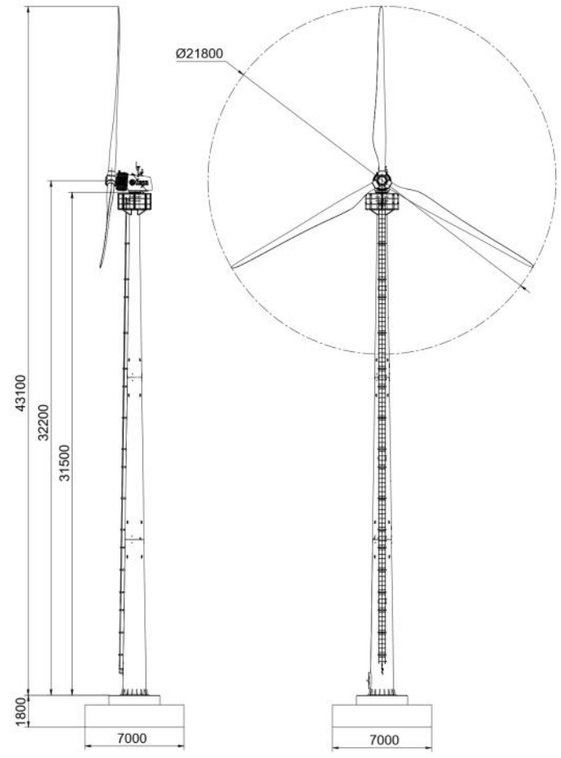




Annual mean wind speed(m/s)	4.0	4.5	5.0	5.5	6.0	6.5	7.0
FD22-60 AEP(MWh)	90	121	152	183	210	234	253
FD22-50 AEP(MWh)	87	115	143	169	192	212	228

Specifications

Model	FD22-50	FD22-60	Tower Height(m)	31.5
Design Class	IECS(DIIIA)		Nacelle Weight (t)	4.0
Rated Power (kW)	50	60	Tower Weight(t)	10.0
Rotor Diameter(m)	21.8		Brake System	Pitch/Mechanical/Electromagnetic
Rated Wind Speed (m/s)	8.6	9.5	Speed Regulation	Pitch Control
Rated RPM(rpm)	65	66	Lightning Protection	Air Termination
Cut-in Wind speed (m/s)	3		Surface Anti-corrosion	C5
Cut-out Wind Speed (m/s)	18(10min), 22(10s)		Blade Material	FRP
Extreme Wind Speed (m/s)	52.5		GeneratorType	Permanent Magnet Direct-drive Generator
Noise Level dB(A)	56		Monitoring System	CUBE
OperatingTemperature(°C)	-20~50		Design life(year)	20
Grid-connected Access Mode	Low-Voltage 400V Grid			



Unit:mm

FD16-30

Product Features

- Designed according to IEC61400-2 standard,sweep area of 191 square meters
- Conform to Japan CLASSNK,Italy CE10-21,America
- UL1741,Canada CSA C22.2 NO.107.1-01,England G59/2; SWCC,CE,IEC61400 certifications;
- Stall speed adjustment to ensure power output stability.
- Multiple safety protections of mechanical braking, electromagnetic braking, and active yawing system.
- Full power inverter isolation technology ensures safety operation of WTG.
- SCADA remote online monitoring technology can realize real-time monitoring and adjustment of parameters.

- High power generation capacity: FD16 series with special characteristics of high efficiency can produce more power under similar wind speed circumstances.
- Lower Noise: FD16 series adopt advanced 9 phase generator technology and low noise bearing designing, which can control noise more effectively and thereby provide silent and friendly operation environment.
- Reduce EPC cost: Integrates traditional inverter, controller and dump load together as a complete control cabinet that can be used independently outside, effectively eliminating the construction cost of the machine room
- Simplified operation and maintenance workload: The integrated design ofelectrical integrated cabinets effectively simplifies the workload of future operation and maintenance

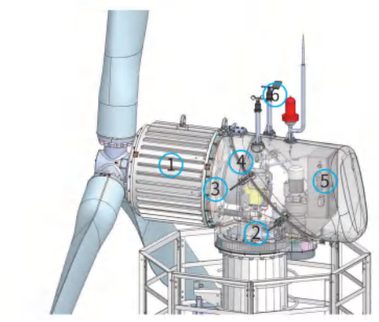
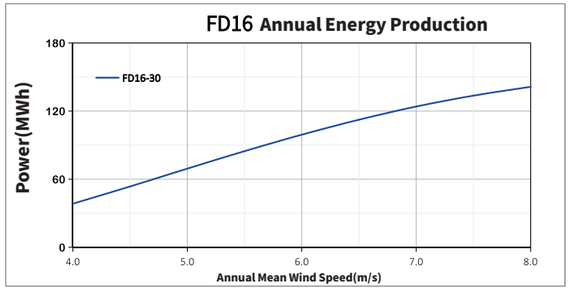


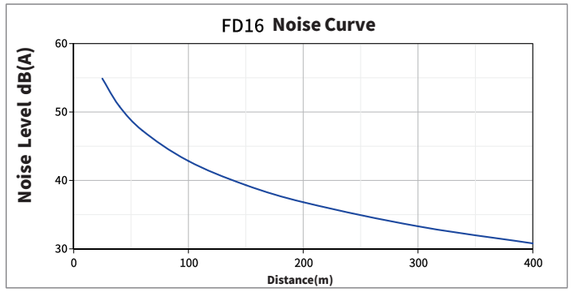
Figure 1 Nacelle structure diagram

Figure 2 Inverter and Controller Integrated Cabinet

①Generator ②YawingSyetem ③Main Shaft Braking System
④Lubrication ⑤Signal Collection Box ⑥Anemometer/Vane
⑦Inverter ⑧Controlle ⑨Dump load

Annual Energy Production and Noise Level

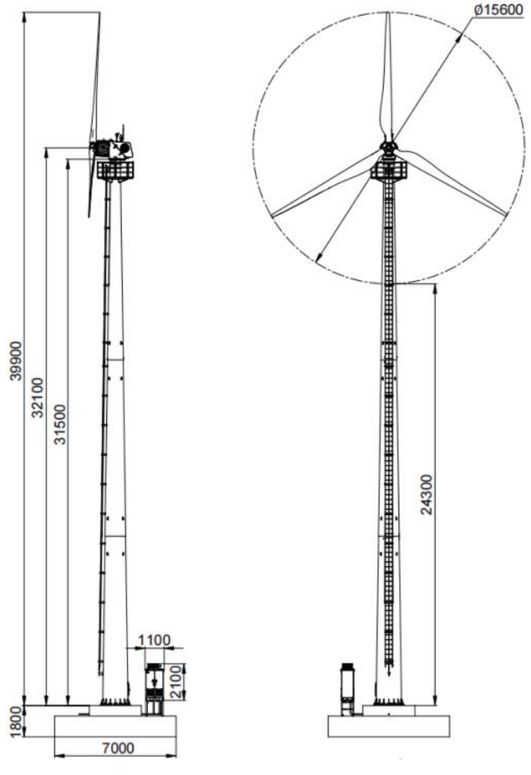




Annual mean wind speed(m/s)	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
FD16-30 AEP(MWh)	38.4	53.6	69.3	84.7	99.2	112.4	124.0	133.6	141.4

Specifications

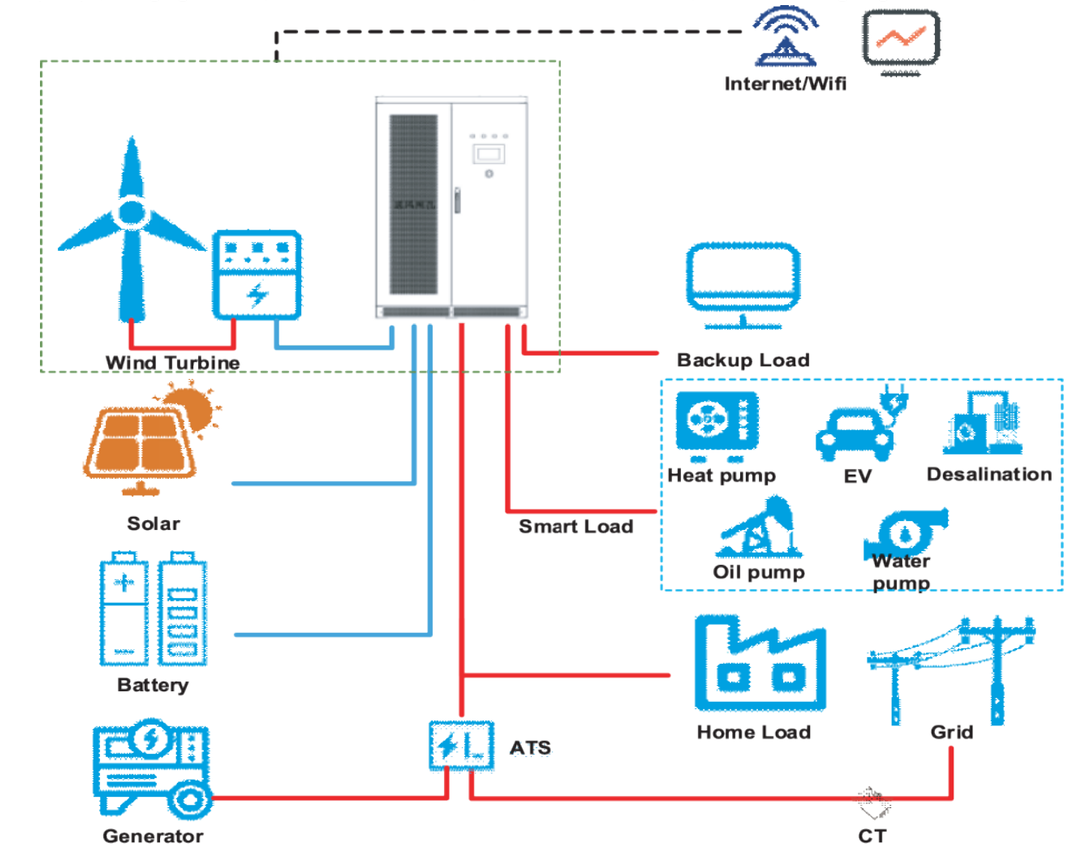
Model	FD16-30	Tower Height(m)	32
Design Class	IECIIA	Nacelle Weight (t)	3.0
Rated Power (kW)	30	Tower Weight(t)	9.9
Rotor Diameter(m)	15.6	Brake System	Mechanical/Electromagnetic
Rated Wind Speed (m/s)	10	Speed Regulation	Stall Control
Rated RPM(rpm)	69	Lightning Protection	Air Termination
Cut-in Wind speed (m/s)	3	Surface Anti-corrosion	C5
Cut-out Wind Speed (m/s)	25	Blade Material	FRP
Extreme Wind Speed (m/s)	59.5	GeneratorType	
Noise Level dB(A)	55	Monitoring System	CUBE
OperatingTemperature(°C)	-20~50	Design life(year)	20
Grid-connected Access Mode	Low-Voltage 400V Grid		



Unit:mm

System Fundamentals

The integrated wind–solar–storage system adopts a microgrid architecture, capable of operating in both grid-connected and off-grid modes. The microgrid is built around a wind–solar hybrid inverter, integrating energy sources such as photovoltaics, energy storage, diesel power, and grid electricity. It incorporates an EMS (Energy Management System) for real-time energy dispatch, management, monitoring, and data tracking. It can be adapted to a wide range of application scenarios, including heat pumps, charging stations, seawater desalination, oil extraction machines, and water lifting irrigation.



Typical Configuration

No.	Name	Specification Model	Qty.	Unit	Remark
1	Wind Turbine	FD22-50（50kW）	1	Set	Including wind generator, blades,tower, foundation accessories, dumploadand
2	Hybrid Inverter	EMGS100-TM	1	Set	Cabinet-type, designed for integrating wind turbines, PV, diesel generators, grid, loads, EMS, and CT reverse power protection set
3	PV module	RSM132-11-605-630BNDG	72	PC	
4	Battery	IC07-B233AP125-A-R2	1	Set	

* Suitable for users with an annual electricity consumption of 150,000 kWh to 200,000 kWh;
Shanghai GhrepowerGreen Energy Co., Ltd.

WBS100 Integrated Wind-PV-Storage C&I System

Project Cases

Stadium

50 kW wind turbine x 1 set
45 kWp PV
100 kWx1 hybrid inverter
215 kWh lithium battery

Industrial park

50 kW wind turbine x 1 set
50 kWp PV
100 kW x 1 hybrid inverter
233 kWh lithium battery

Logistics Company Charging Station

50 kW wind turbine x 1 set
50 kWp PV
100 kWx1 hybrid inverter
233 kWh lithium battery

Desalination

100 kW wind turbine X 1set
100 kWx1 hybrid inverter
100 t/day seawater desalination system
233 kWh lithium battery

Distributed wind power solutions

More efficient use of resources and higher returns on business investment

Model: FD16-19.2
Project location: Hokkaido, Japan
Run time: 2019

Model: FD25-100
Project location: Liaoning Province, China
Run time: 2018

Model: FD42-400
Project location: Neimenggu Municipality,China
Run time: 2021

Model: FD21-50
Project location: Nova Scotia,Canada
Run time: 2015

Application background: Global feed-in tariff subsidy policies, high electricity costs, and regions rich in wind resources.

System features:

Low-voltage grid-connected, close to user-side absorption, and not strictly restricted by power grid standards, leaving room for standardized equipment supporting the grid and increasing users' independent choice. Makes full use of recyclable,pollution-free, and low-cost wind resources to complement distributed photovoltaics in terms of time and space, improving the overall utilization rate of distributed clean energy. No need for large-scale or intensive capital investment; existing resources can be reused with low initial investment and higher returns on asset investment.

Application fields: Oil and gas industry, village power supply, industrial parks, and other regional power supply scenarios.

Distributed wind power solutions

Complementary new energy power supply,stable and reliable system

Model: FD32-150
Proiect location: Yunnan Province,China
Run time: 2023

Model: FD21-50
Proiect location: Zhenjiang Province,China
Run time: 2023

Model: FD21-100
Proiect location: Bristol,England
Run time: 2013

Model: FD25-100
Proiect location: Qingdao,China
Run time: 2021

Application background: Suitable for unstable power grids, insufficient grid capacity, and areas without power grid coverage.

System features:

Strong compatibility with good AC/DC grid adaptability, enabling various energy complementarities such as wind, PV, and diesel. The system is flexible and can be integrated into the external power grid or operate as an independent power grid, complemented by other equipment. Orderly scheduling allows rapid response to various system energy management instructions. A comprehensive monitoring and management system meets the needs of diverse power and load management applications. Environmentally friendly, with a preference for wind and PV energy, thereby reducing the use of traditional fossil energy.

Application fields: Islands, villages, public utilities, and other power supply scenarios.

Distributed wind power solutions

Compl ementary new energy power supply.stable and reliable system

Model: FD56-500kW
Project location:Songyuan,Jilin
Run time: 2024
Project description: Oil field distrbuted power supply

Model: FD56-500kW
Project location: Chengde,Hebei Province
Run time: 2024
Project description: New energy heavy-duty truck charging station

Model: FD16-30kW
Project location: Philippines
Run time: 2024
Project description: Island resorts for self-consumption

Model: FD25-60kW
Project location: Crete,Greece
Run time: 2024
Project description: Distributed commercial grid connected electricty sales

Application background : Suitable for high power cost,unstable power grid, insuficient power grid capacity eareasing lobal

System features :

- Low vol tage grid-connected,close to the user side absorption
- Not strictly restricted by the power grid standards, leaving olt the standardi zed equi pment supporting the power grid, and increasing the users'independent choice
- Make full use of recyclable, pollution-free and cheap wind re!ources to complement distri buted photovol taic in time and space, and improve the overall utilization rate of distribited clean energy;
- No need for large-scale and intensive capitalinvestment,and existing resources can be reused wi th lower initialinvestment and hi gher return on asset investment ;

Application fields: Oil and gas industry, village power supply,industrial park, expressway, port&dock and other regions power supply

Communication base station power supply solutions

Complementary new energy power supply, stable and reliable system

Model: FD25-60
Project location: Casalvecchio di Puglia, Foggia, Apulia, Italy
Runtime: 2020
Proiect description:Revitalizing Aging Wind Power Projects

Model: FD25-120
Projectlocation: Ural Federal District,Russia
Run time: 2020
Proiect description: Wind-Diesel Hybrid Microgrid System for Reducing Diesel Consumption

Model: FD25-100
Project location: Nghi Son Ward,Thanh Hóa Province, Vietnam
Run time: 2025
Project description: Industrial Park Seawater Desalination Wind-Solar-Storage Microgrid System

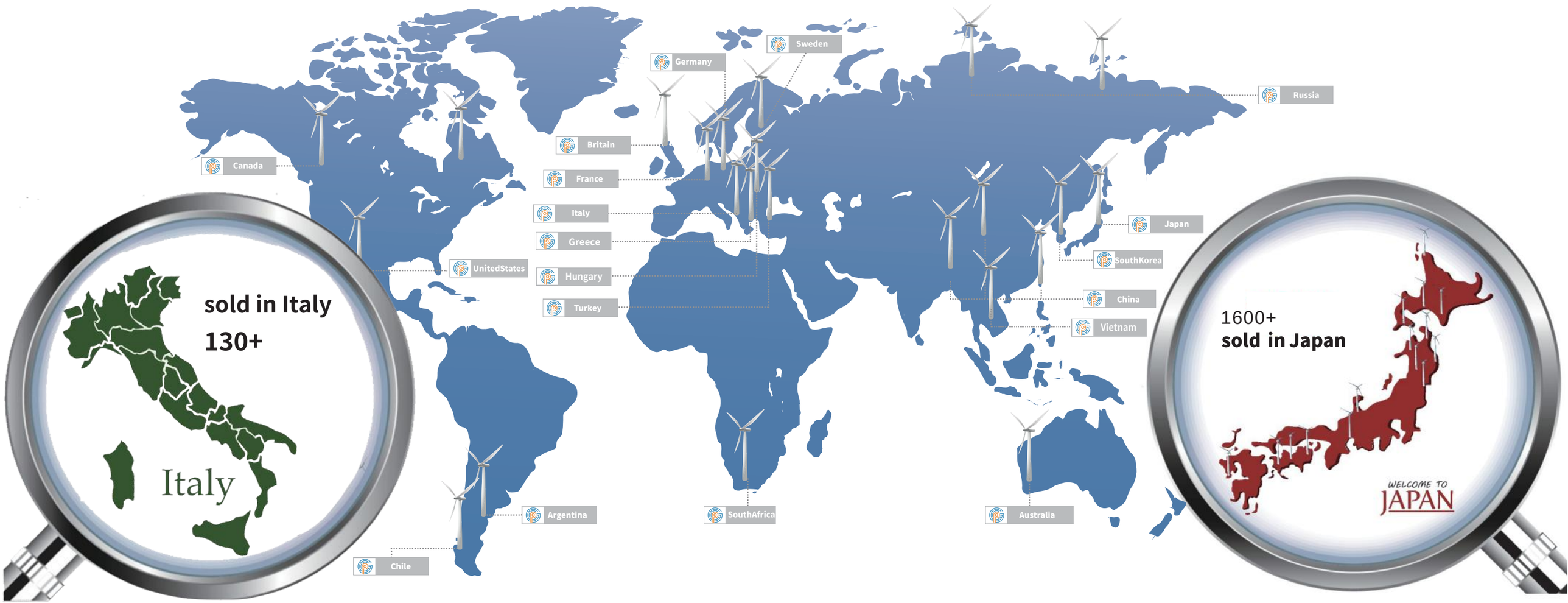
Model: 42-400
Project location: Hokkaido, Japan
Run time: 2025
Project description: Distributed wind power project

Application background : With the rapid development of the communication industry, power grid cannot cover or power grid is unstable leads to the unreliable power supply ofthe base station

System features :

For different working conditions, the system has island, high cold, high altitude, desert options; Multi-energy power supply, the pursuit of stable investment equity ratio; Modular design to meet the requirements of different systems;, Remote monitoring, real-time understanding ofstatus, reduce operation and maintenance costs

Application fields: Communication base stations with no power, unstable power grid or with energy saving and emission reduction requirements



Global Sales Map

* Data collection internally by Shanghai Ghrepower
* Data collection deadline on this page: December 31, 2025

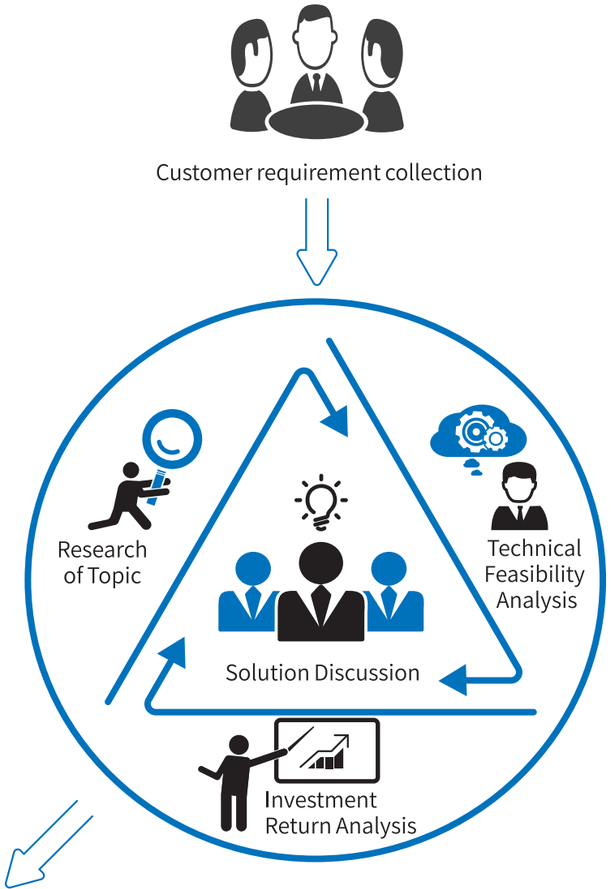
30+
Countries & regions

50%+
Market Share in Japan

1Company
Jointly Funded in Canada

1Company
Solely Funded in Japan

Pre-sale service



The feasibility report

Project report and implementation

After-sale service

Shanghai Ghrepower keeps regular inventory, responds to orders in the first time, and provides customers with safe, efficient and economical logistics solutions.

After-sale service

- **EPC skills training certification:**
- 1. Wind turbine installation skills training;
- 2. Wind turbine commissioning and grid-connection skills training;
- 3. Skill training for wind turbine troubleshooting;
- 4. Wind turbine operation and maintenance skills training.

Provide 20 years of product operation and maintenance service, more than 3000+ system operation and maintenance experience.