Adding Green Energy to Life, Value to the World

SoyutWind

Design | Production | Installation

- On Grid Wind Turbines
- Off Grid Wind Turbines
- Soyut WindMill Windpumps

TURKIYE'S FIRST & ONLY WIND TURBINE MANUFACTURER

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SoyutWind is a subsidiary of ÇOLAK Holding A.Ş.

Shaping the Future With Sustainable Solutions

As SoyutWind, Türkiye's leading power in the field of wind energy, we serve the energy needs of not only Türkiye but also the region. As Türkiye's first and only domestic wind turbine manufacturer, we produce renewable energy solutions with our turbine capacity reaching up to 2.5 MW.
Up to 1 MW, we are the first and only manufacturer of direct drive turbines in Türkiye and the region. With half a century of experience and innovative engineering, we offer more efficient and durable turbines. We meet the future with confidence.

50 YEARS OF EXPERIENCE

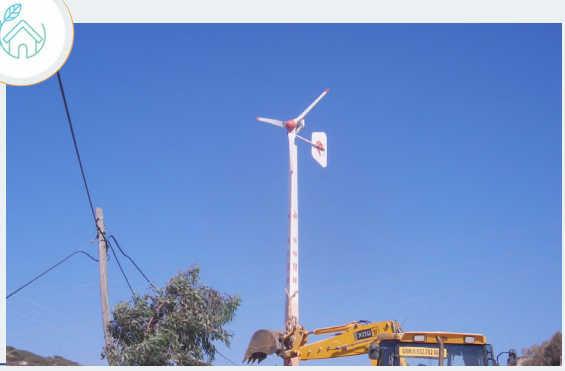
Since 1974, Çolak Holding A.Ş. has played a pioneering role in the energy sector and we have been working with the mission of making renewable energy resources more accessible and effective. Since 2000, we have been focusing on wind turbine production under the brand name SoyutWind, and we continue to take innovative steps in energy production. In our production facilities in Ankara-Temelli, we produce all components of wind turbines in global standards and with a sustainable total quality management approach.

1974 SoyutWind's parent company Çolak Holding | Soyut Group was established.

1994 Soyut Energy has imported photovoltaic cells and successfully implemented the first solar energy applications in Türkiye.

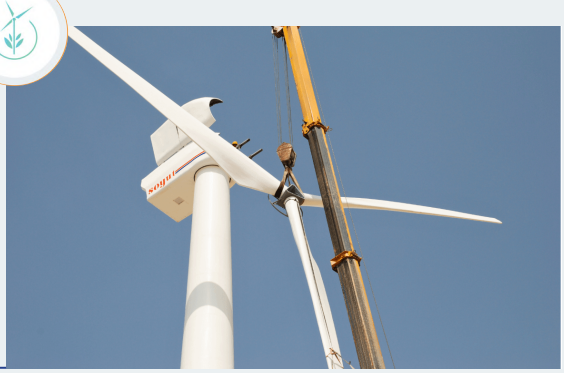
Bringing Green Energy to Homes Adding Value to the World

With the motto "Generate Your Own Energy", SoyutWind wind turbines, which can reach high power even at low wind speeds, are designed to meet the energy needs of your home. With our 1 kW - 50 kW household wind turbines, we leave energy production under your control.



100% In-house Design & Manufacturing

We are manufacturing blades, nacelles, towers and control & scada systems at our 15.000 m^2 closed and 120.000 m^2 open area factory located in Temelli-Ankara/Türkiye.
Our blades specifically design to generate more electricity at low wind speeds.



We Harness the Power of Wind and Combine it with Water

As one of the industry's oldest windmill manufacturers, we offer economical agricultural irrigation options.

16 blades, working depth of 60 meters and a capacity of 90 tons per day, we offer Soyut WindMill Wind Water Pumps for agricultural irrigation and to meet the water needs of homes.

1996 Soyut Energy has started to manufacture parts of francis model hydro turbines with a power of 3.6 MW.

2000 SoyutWind brand was established. The first Turkish manufactured wind turbine's R&D studies started.

Local Innovation, Global Transformation

As SoyutWind, our vision is to take our place among the world's leading brands in the field of renewable energy technologies and to be one of the actors of the global energy transformation by making wind energy a more accessible resource. With advanced technology and environmentally friendly wind turbines, we aim to reduce the carbon footprint of energy production in our country and the world and accelerate the adoption of renewable energy.

Our biggest goal is to ensure that individuals and societies achieve a sustainable future by maximizing the power generated from wind energy with a continuous innovation approach.

OUR VALUES

The Priority of R&D

Continuous Innovation

Sustainable Development

Innovative Culture

Social Contribution and Environmental Awareness

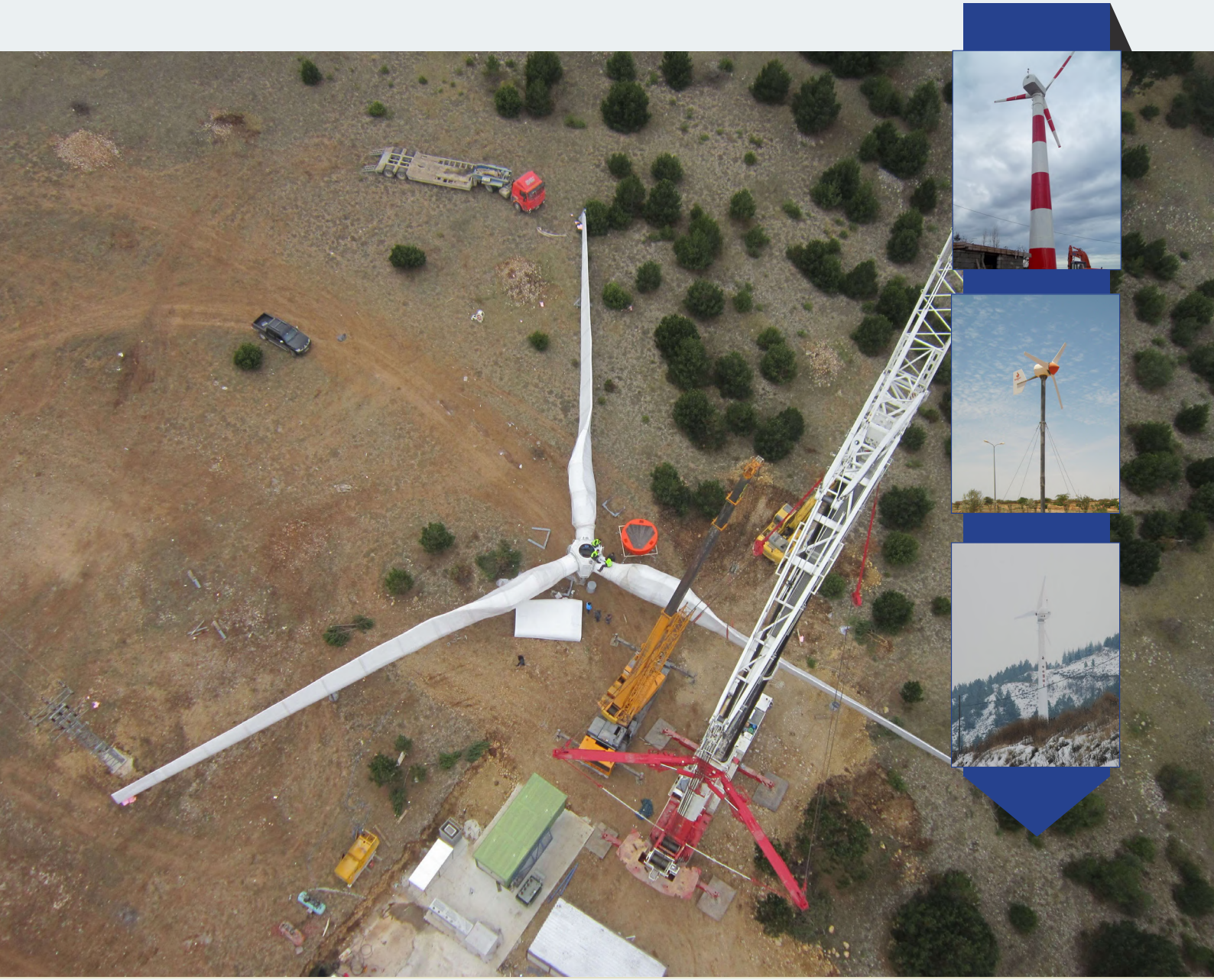
2004 The production, optimization, and installation of Türkiye's first unlicensed 250 kW wind turbine have been completed.

2006 With the SoyutWind brand, production of residential wind turbines has begun to meet the clean energy needs of homes.

For a Cleaner and More Livable World

As SoyutWind, we aim to produce high quality, innovative and environmentally friendly wind turbines with our desire to create a sustainable world and our belief in renewable energy solutions. By developing a wide range of wind turbines from 1 kW to 2.5 MW, we aim to meet energy needs with environmentally friendly methods and promote energy independence.

The most important mission of our company is to contribute to the global energy transformation and ensure that both individuals and societies benefit from renewable energy sources in the most efficient way. In this journey, we are committed to leaving a cleaner and livable world to future generations by acting with a competent engineering approach and the principle of sustainability.



2008 Under the Soyut WindMill brand, we have started the production of windpumps that will reduce energy costs for farmers and increase agricultural irrigation efficiency.

2009 Türkiye's first wind turbine export was carried out. The initial exports were made to Africa as part of a United Nations project.

Comprehensive Engineering and Design Services

As an organization specialized in engineering services, we carry out the mechanical design and engineering of all the products we manufacture together with our in-house engineers and the scientists, academicians and environmental consultants we cooperate with.

Turnkey Wind Turbine Solutions

As SoyutWind, we offer turnkey solutions for turbine types ranging from 1 kW to 2500 kW. In this context, we provide reliable and high quality services in all engineering, manufacturing, logistics, construction, installation and commissioning process involved in a WPP (Wind Power Plant) project.

Wind Potential and Land Analysis Consulting

In order to determine the sites suitable for your WPP investment, we can provide you wind resource data of the location you are interested in instead of installing wind mast so that you can have a decision in a faster and less costly way.
With the consultancy services we provide, micrositing and CFD analysis of the potential site can be carried out. We can also suggest alternative lands by conducting different site surveys.

2015 SoyutWind started to manufacture 1 MW capacity wind turbines.

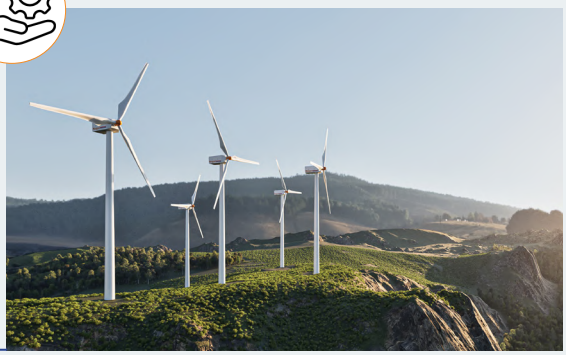
2017 10 kW permanent magnet generator (pmg) wind turbines were produced and exported.

System Performance and Maintenance Services

You can always rely on our know-how and expertise for the maximum performance of your system. You can access remote monitoring, maintenance-repair and possible failure intervention information from a single source with detailed reports. With the on-site and rapid intervention of our expert teams, possible failure situations are prevented and periodic maintenance of the turbine is carried out in the fastest and most reliable way.

Project Approval and Feasibility Studies

In order to ensure the highest performance in energy production, we complete land selection, wind data analysis, field studies, due diligence, obtain the necessary permits and complete the project approval procedures accurately and quickly.



Financial Analysis and Resource Acquisition

The financial analysis of your technically analyzed wind power plant (WPP) investment is carried out by our experienced team at SoyutWind. According to the financial analysis of your project, we evaluate the most suitable domestic or foreign financing alternatives and partnership-financing methods such as venture capital and inform the WPP investor.

2021 The first 50 kW capacity permanent magnet generator (pmg) has been manufactured in Türkiye by SoyutWind.

Green Energy for Your Home

If you are looking for an ideal, environmentally friendly and renewable energy source for your home, our battery charged wind turbines with different capacities between 1 kW and 30 kW are the perfect option. Our wind turbines with their high efficiency and user-friendly design, allow you to generate your own electricity and also offer everything you need for a sustainable lifestyle.

ENERGY FREEDOM

High Productivity

Easy Installation

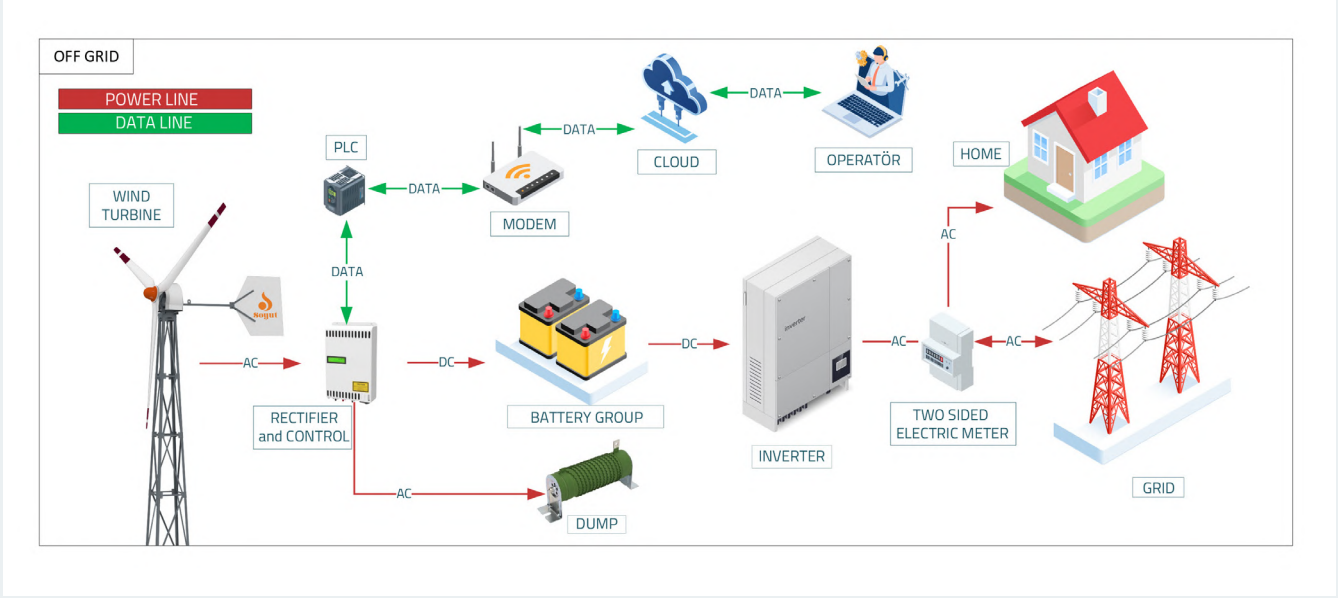
Resilience

The electricity generation capacity of domestic wind turbines depends on several factors. These include the size of the turbine, the wind speed and the efficiency of the turbine. Depending on the average annual wind speed and the rotor diameter of the turbine, the SoyutWind household wind turbine can generate between 3,000 and 10,000 kilowatt-hours (kWh) of electricity per year. This is enough to meet the annual electricity needs of many households.

The location of the turbine can significantly affect the generation capacity. For example, in areas where the wind blows frequently and strongly, the turbine will generate more electricity. The height of the turbine is also important; generally, the higher the height of the turbine, the higher the wind speed and hence the higher the electricity production.

This information is important to understand the potential of domestic wind turbines. When assessing whether a turbine is suitable for your home, it is necessary to consider the average wind speed in your location and the characteristics of the turbine. As SoyutWind, we are happy to provide you with detailed information and guidance on this subject. You can contact us for more information. Step into a sustainable, efficient and economical energy solution with our domestic wind turbines.

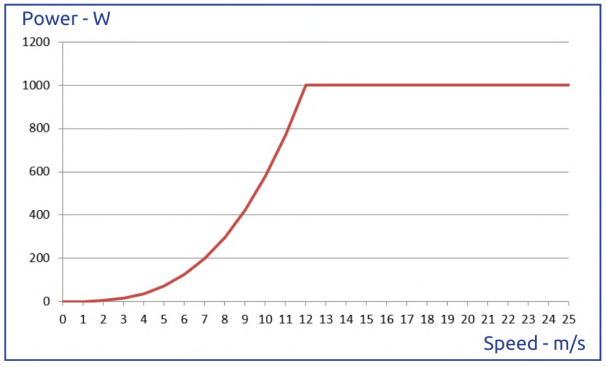
Battery Systems (Off-Grid)



1 KW

Off Grid System

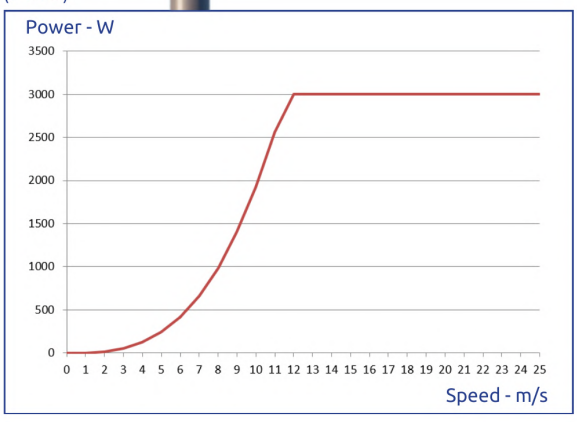
Rated Wind Speed	12 m/s
Cut-in Wind Speed	3 m/s
Cut-out Wind Speed	25 m/s
Rotor Diameter	2 m
Swept Area	3,14 m^2
Tower Height	5 m - 6,5 m
Operating Temperature	-30°C – + 50°C
Blade Type	Fiberglass Composite
Tower Type	Steel Pole
Yaw System (Facing - Avoiding)	Furling
Gearbox	No
Control System	PLC
Brake	Electromagnetic
Alternator	3 Phase Permanent Magnet (PMG)
Voltage	110/220/400 VAC - 50/60 Hz
Wind Speed Sensor	Yes
Temperature Sensor	Yes
Remote Control and Monitoring	Yes
Lightning Protection	Yes
Battery Voltage	12V - 24V - 48V



3 KW

Off Grid System

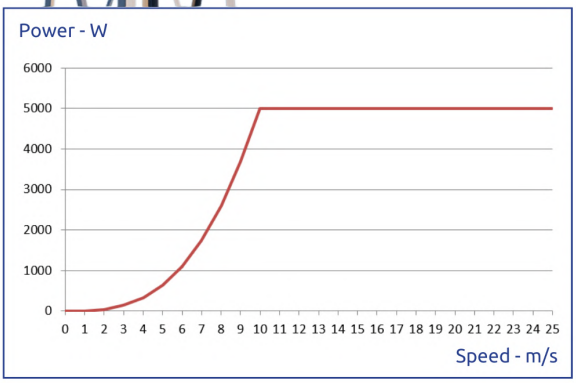
Rated Wind Speed	12 m/s
Cut-in Wind Speed	3 m/s
Cut-out Wind Speed	25 m/s
Rotor Diameter	4 m
Swept Area	12,56 m^2
Tower Height	5 m - 6,5 m
Operating Temperature	-30°C – + 50°C
Blade Type	Fiberglass Composite
Tower Type	Steel Pole
Yaw System (Facing - Avoiding)	Furling
Gearbox	No
Control System	PLC
Brake	Electromagnetic
Alternator	3 Phase Permanent Magnet (PMG)
Voltage	110/220/400 VAC - 50/60 Hz
Wind Speed Sensor	Yes
Temperature Sensor	Yes
Remote Control and Monitoring	Yes
Lightning Protection	Yes
Battery Voltage	12V - 24V - 48V



5 KW

Off Grid System

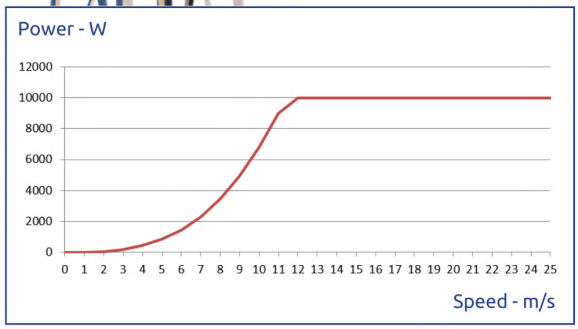
Rated Wind Speed	10 m/s
Cut-in Wind Speed	3 m/s
Cut-out Wind Speed	25 m/s
Rotor Diameter	6,5 m
Swept Area	33,18 m^2
Tower Height	6,5 m
Operating Temperature	-30°C – + 50°C
Blade Type	Fiberglass Composite
Tower Type	Steel Lattice
Yaw System (Facing - Avoiding)	Furling
Gearbox	No
Control System	PLC
Brake	Electromagnetic
Alternator	3 Phase Permanent Magnet (PMG)
Voltage	110/220/400 VAC - 50/60 Hz
Wind Speed Sensor	Yes
Temperature Sensor	Yes
Remote Control and Monitoring	Yes
Lightning Protection	Yes
Battery Voltage	24V - 48V - 96V



10 KW

Off Grid System

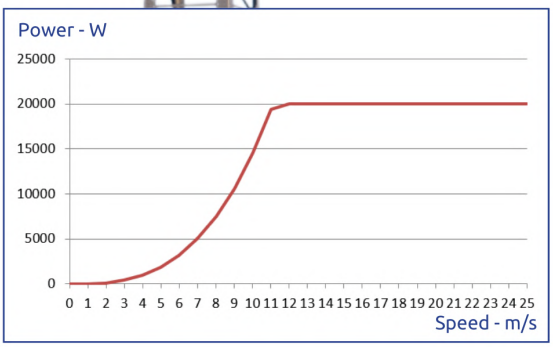
Rated Wind Speed	12 m/s
Cut-in Wind Speed	3 m/s
Cut-out Wind Speed	25 m/s
Rotor Diameter	7,5 m
Swept Area	44,18 m^2
Tower Height	8,5 m
Operating Temperature	-30°C – + 50°C
Blade Type	Fiberglass Composite
Tower Type	Steel Lattice
Yaw System (Facing - Avoiding)	Furling
Gearbox	No
Control System	PLC
Brake	Electromagnetic
Alternator	3 Phase Permanent Magnet (PMG)
Voltage	110/220/400 VAC - 50/60 Hz
Wind Speed Sensor	Yes
Temperature Sensor	Yes
Remote Control and Monitoring	Yes
Lightning Protection	Yes
Battery Voltage	24V - 48V - 96V



20 KW

Off Grid System

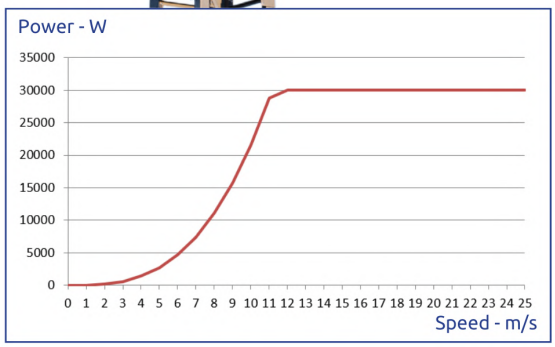
Rated Wind Speed	12 m/s
Cut-in Wind Speed	3 m/s
Cut-out Wind Speed	25 m/s
Rotor Diameter	11 m
Swept Area	95 m^2
Tower Height	12 m - 14 m
Operating Temperature	-30°C – + 50°C
Blade Type	Fiberglass Composite
Tower Type	Steel Lattice
Yaw System	Electric
Gearbox	No
Control System	PLC
Brake	Electromagnetic
Alternator	3 Phase Permanent Magnet (PMG)
Voltage	110/220/400 VAC - 50/60 Hz
Wind Speed Sensor	Yes
Temperature Sensor	Yes
Remote Control and Monitoring	Yes
Lightning Protection	Yes
Battery Voltage	24V - 48V - 96V



30 KW

Off Grid System

Rated Wind Speed	12 m/s
Cut-in Wind Speed	3 m/s
Cut-out Wind Speed	25 m/s
Rotor Diameter	15 m
Swept Area	176,7 m^2
Tower Height	18 m - 22 m
Operating Temperature	-30°C – + 50°C
Blade Type	Fiberglass Composite
Tower Type	Steel Lattice
Yaw System	Electric
Gearbox	No
Control System	PLC
Brake	Electromagnetic
Alternator	3 Phase Permanent Magnet (PMG)
Voltage	110/220/400 VAC - 50/60 Hz
Wind Speed Sensor	Yes
Temperature Sensor	Yes
Remote Control and Monitoring	Yes
Lightning Protection	Yes
Battery Voltage	24V - 48V - 96V



We are Converting Wind into Energy with Tomorrow's Technology

By completing the period from manufacturing to commissioning in a short time, we offer sustainable and high quality products with our international certificates. We shape the future with sustainable solutions.

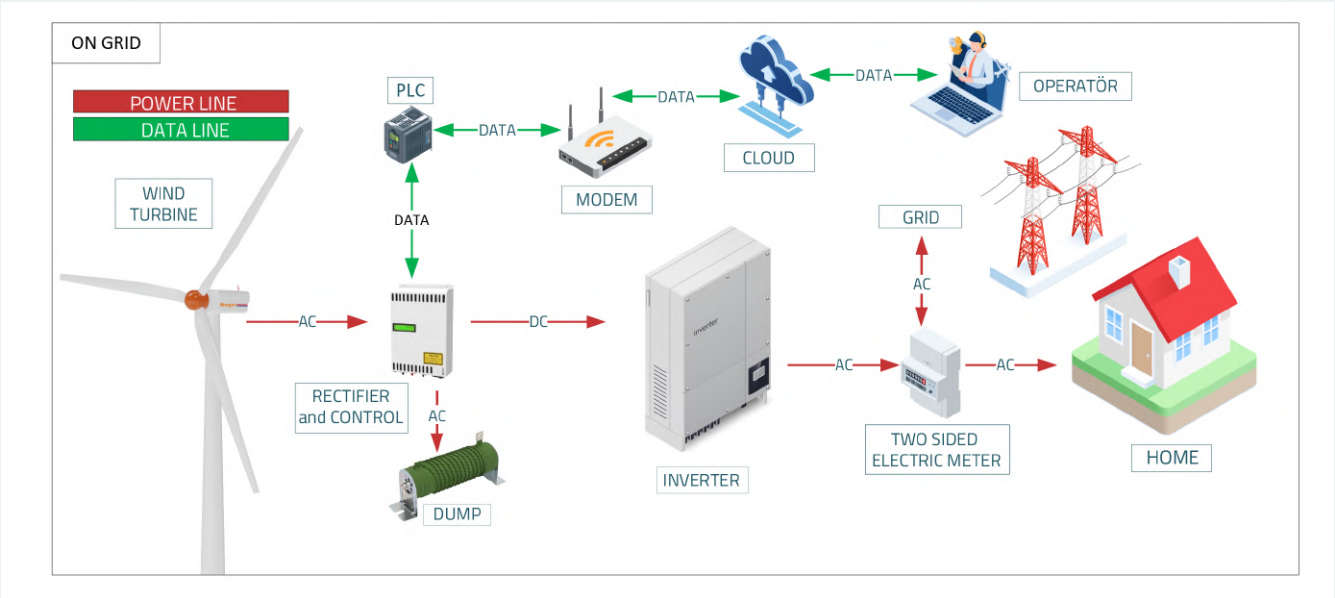
CLEAN ENERGY

Powered by Permanent Magnet Generator

Uninterrupted Power Maximum Yield

Founded in 1974, Soyut Enerji operates as a strong subsidiary of Çolak Holding A.Ş., which operates in a wide range of fields from production to finance, from trade to renewable energy solutions.
We manufacture all components of wind turbines - blades, tower, nacelle and control systems - in our factory in Ankara-Temelli, which has a closed area of 15,000 m^2 and an open area of 120,000 m^2 in accordance with international quality standards. We aim to meet energy needs with environmentally friendly methods and promote energy independence.

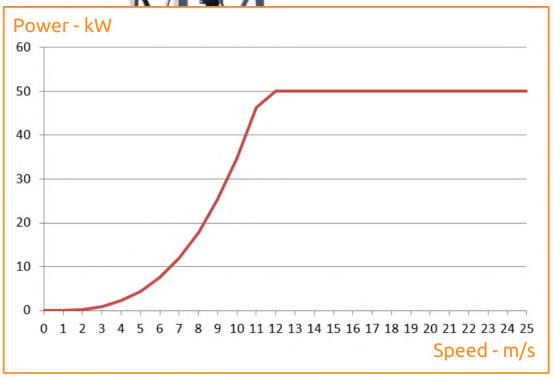
On Grid Systems



50 KW

On Grid System

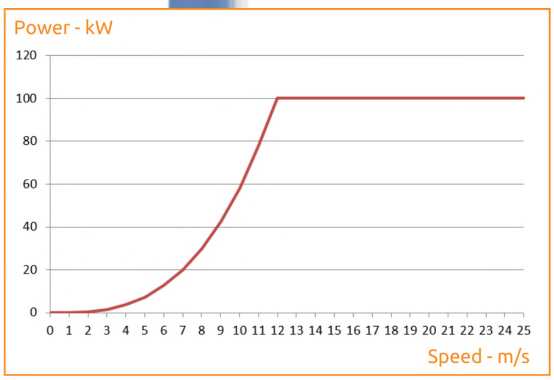
Rated Wind Speed	12 m/s
Cut-in Wind Speed	3 m/s
Cut-out Wind Speed	25 m/s
Rotor Diameter	17 m
Swept Area	227 m^2
Tower Height	22 m - 25 m
Operating Temperature	-30°C – + 50°C
Blade Type	Fiberglass Composite
Tower Type	Steel Lattice
Yaw System	Electric
Gearbox	No
Control System	PLC
Brake	Electromagnetic
Alternator	3 Phase Permanent Magnet (PMG)
Voltage	110/220/400 VAC - 50/60 Hz
Wind Speed Sensor	Yes
Temperature Sensor	Yes
Remote Control and Monitoring	Yes
Lightning Protection	Yes



100 KW

On Grid System

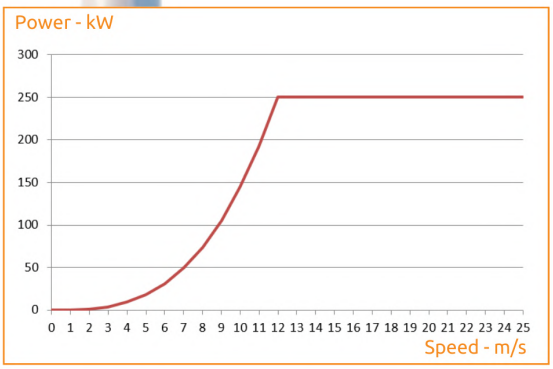
Rated Wind Speed	12 m/s
Cut-in Wind Speed	3 m/s
Cut-out Wind Speed	25 m/s
Rotor Diameter	22 m
Swept Area	378 m^2
Tower Height	25 m - 30 m
Operating Temperature	-30 °C – + 50 °C
Blade Type	Fiberglass Composite
Tower Type	Tubular Steel / Steel Lattice
Yaw System	Electric
Pitch Control	Yes
Control System	PLC
Brake	Electromagnetic / Hydraulic
Alternator	Synchronous / Asynchronous / 3 Phase (PMG)
Voltage	110/220/400 VAC - 50/60 Hz
Wind Speed Sensor	Yes
Temperature Sensor	Yes
Remote Control and Monitoring	Yes
Lightning Protection	Yes



250 KW

On Grid System

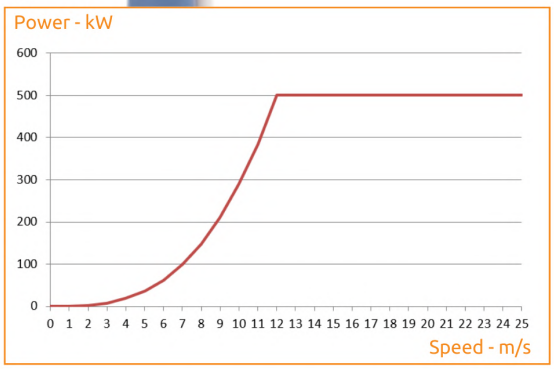
Rated Wind Speed	12 m/s
Cut-in Wind Speed	3 m/s
Cut-out Wind Speed	25 m/s
Rotor Diameter	34 m
Swept Area	907,9 m^2
Tower Height	36 m - 40 m
Operating Temperature	-30°C – + 50°C
Blade Type	Fiberglass Composite
Tower Type	Tubular Steel / Steel Lattice
Yaw System	Electric
Pitch Control	Yes
Control System	PLC
Brake	Electromagnetic / Hydraulic
Alternator	Synchronous / Asynchronous / 3 Phase (PMG)
Voltage	110/220/400 VAC - 50/60 Hz
Wind Speed Sensor	Yes
Temperature Sensor	Yes
Remote Control and Monitoring	Yes
Lightning Protection	Yes



500 KW

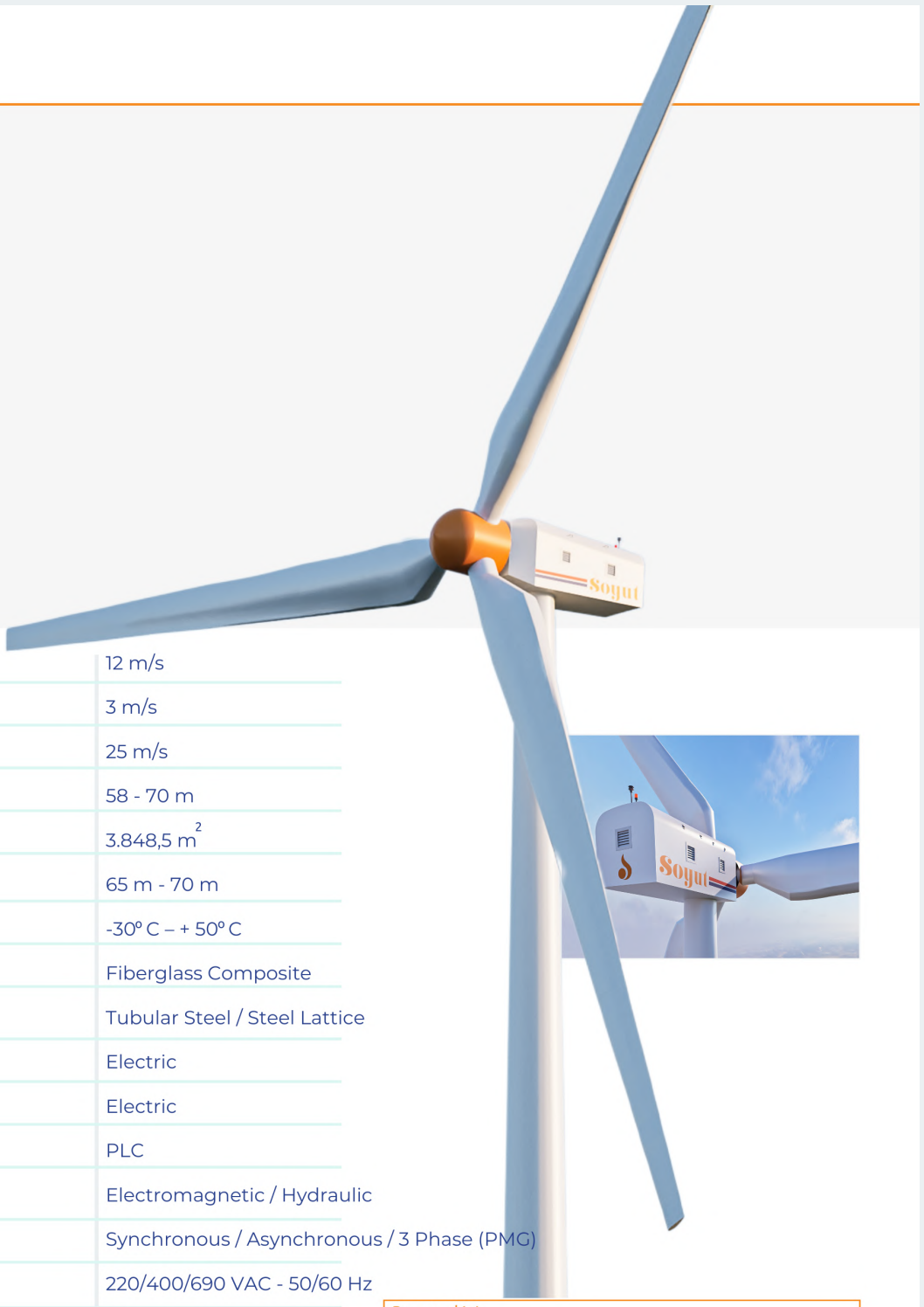
On Grid System

Rated Wind Speed	12 m/s
Cut-in Wind Speed	3 m/s
Cut-out Wind Speed	25 m/s
Rotor Diameter	49 m
Swept Area	1.885,7 m^2
Tower Height	48 m - 50 m
Operating Temperature	-30°C – + 50°C
Blade Type	Fiberglass Composite
Tower Type	Tubular Steel / Steel Lattice
Yaw System	Electric
Pitch Control	Yes
Control System	PLC
Brake	Electromagnetic / Hydraulic
Alternator	Synchronous / Asynchronous / 3 Phase (PMG)
Voltage	110/220/400/690 VAC - 50/60 Hz
Wind Speed Sensor	Yes
Temperature Sensor	Yes
Remote Control and Monitoring	Yes
Lightning Protection	Yes

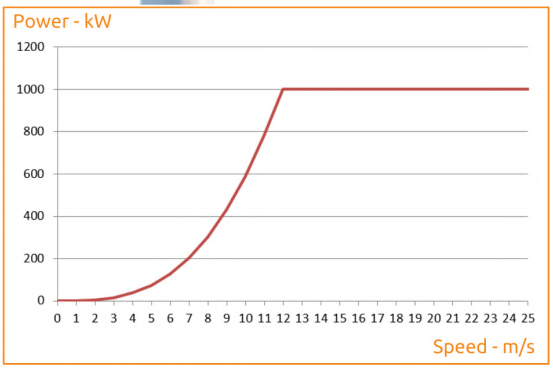


1000 KW

On Grid System



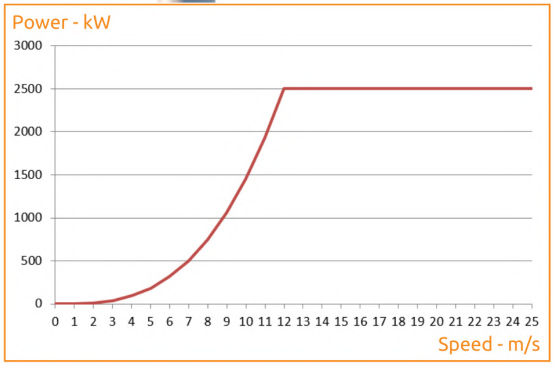
Rated Wind Speed	12 m/s
Cut-in Wind Speed	3 m/s
Cut-out Wind Speed	25 m/s
Rotor Diameter	58 - 70 m
Swept Area	3.848,5 m^2
Tower Height	65 m - 70 m
Operating Temperature	-30° C – + 50° C
Blade Type	Fiberglass Composite
Tower Type	Tubular Steel / Steel Lattice
Yaw System	Electric
Pitch Control	Electric
Control System	PLC
Brake	Electromagnetic / Hydraulic
Alternator	Synchronous / Asynchronous / 3 Phase (PMG)
Voltage	220/400/690 VAC - 50/60 Hz
Wind Speed Sensor	Yes
Temperature Sensor	Yes
Remote Control and Monitoring	Yes
Lightning Protection	Yes



2500 KW

On Grid System

Rated Wind Speed	12 m/s
Cut-in Wind Speed	3 m/s
Cut-out Wind Speed	25 m/s
Rotor Diameter	88 m
Swept Area	6.082,12 m^2
Tower Height	80 m
Operating Temperature	-30°C – + 50°C
Blade Type	Fiberglass Composite
Tower Type	Tubular Steel / Steel Lattice
Yaw System	Electric
Pitch Control	Electric
Control System	PLC
Brake	Electromagnetic / Hydraulic
Alternator	Synchronous / Asynchronous / 3 Phase (PMG)
Voltage	110/220/400/690 VAC - 50/60 Hz
Wind Speed Sensor	Yes
Temperature Sensor	Yes
Remote Control and Monitoring	Yes
Lightning Protection	Yes



We Harness the Power of Wind and Combine it with the Water

Soyut WindMill is a subsidiary of ÇOLAK Holding A.Ş. (www.colakholding.com), which was established in 1974 and operates in the fields of energy, production, finance and trade.

Soyut WindMill manufactures wind mills in as short as 15 days.

SUSTAINABLE AGRICULTURE

Minimum Energy Cost

Maximum Yield

Environment Friendly Agricultural Activity

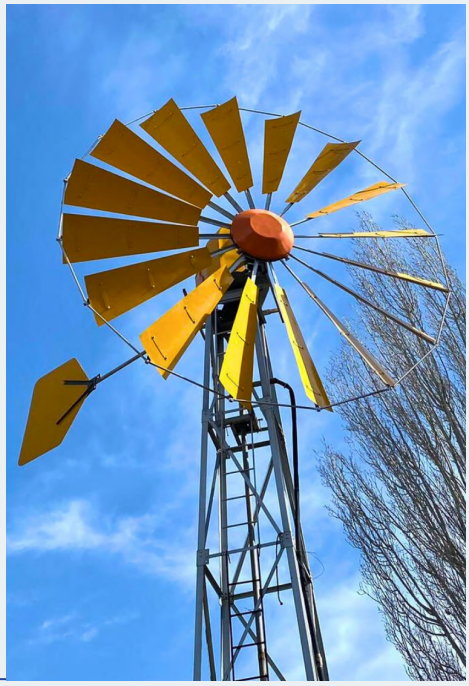
We combined the power of wind with water in Africa with the Soyut WindMill wind water pump, which was produced and exported with 100% in-house design and engineering (2009).

The environmentally friendly Soyut WindMill wind water pump offers a sustainable irrigation solution for your farmland. It also meets the water needs of homes. Aerodynamic blades and advanced technology ensure effective water pumping even in the lightest winds. Its durability is enhanced with a galvanized steel tower and stainless steel pump, and the system offers 50% more energy savings than fossil fuel alternatives. Protect our planet while increasing your agricultural productivity. Soyut WindMill reduces your agricultural irrigation costs with wind power.

Irrigation with Wind Water Pump in Agriculture

A wind pump is a wind mill that pumps water from various water sources, including boreholes. The pumped water is often used to provide clean drinking water, irrigate agricultural fields or hydrate and feed animals. Wind energy;

- It reduces dependence on external energy sources.
- It is a clean energy and has almost no harm to the environment.
- No fuel consumption and no air pollution.
- It does not cause pollution like that produced by fossil fuel power plants.



WindMill 4.8

Wind Pump

Weight	1200 kg
Capacity	57 tons / day (60 m depth)
Number of Blades	16
Blade Angle	40°
Rotor Diameter	4,8 m
Tower Type	Steel Lattice
Tower Height	10 m
Tower Bottom Width	170 cm x 170 cm
Tower Top Width	60 cm x 60 cm
Cut-in Wind Speed	4 m/s
Rated Wind Speed	10 m/s
Cut-out Wind Speed	12 m/s
Wind Protection	Furling
Facing into the Wind	Yes (Tail)
Brake	Yes (Mechanical)

WindMill 6

Wind Pump

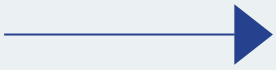
Weight	1.450 kg
Capacity	90 tons / day (60 m depth)
Number of Blades	16
Blade Angle	40°
Rotor Diameter	6 m
Tower Type	Steel Lattice
Tower Height	10 m
Tower Bottom Width	170 cm x 170 cm
Tower Top Width	60 cm x 60 cm
Cut-in Wind Speed	4 m/s
Rated Wind Speed	10 m/s
Cut-out Wind Speed	12 m/s
Wind Protection	Furling
Facing into the Wind	Yes (Tail)
Brake	Yes (Mechanical)

Our Certificates

Our company is committed to sustainability and quality standards through a series of internationally recognized certifications. Our wind turbine technologies are continuously developed and tested to meet and exceed the highest standards in the industry.

CE: Guarantees that our products comply with European Union health, safety and environmental protection standards.

ISO 9001: It certifies that our quality management systems comply with international standards aimed at maximizing customer satisfaction.

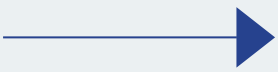


ISO 10002: It shows that the methods we apply for the effective management of customer complaints are based on the principles of customer orientation and continuous improvement.

ISO 14001: Evidence that our environmental management systems aim to reduce environmental impact and adhere to the principles of sustainability.

ISO 45001: Demonstrates that our occupational health and safety management systems comply with international standards to protect the health and safety of our employees.

ISO 50001: It covers processes that ensure the continuous improvement of energy management systems in terms of energy efficiency, usage, and consumption.



SoyutWind Signature in Challenging Projects

While SoyutWind engineers design and manufacture durable wind turbines that withstand challenging geographical conditions, the logistics and installation team transforms the power of the wind into electricity in remote geographies, hot climates, and snowy mountains.

Our wind turbines, suitable for various conditions, are produced with domestic resources and advanced engineering using state-of-the-art technology at our factory in Ankara/Türkiye.

In challenging geographical conditions, our experienced installation and logistics team achieves unparalleled success.

With projects implemented in remote regions and under varying climatic conditions, SoyutWind has a significant signature in the global energy transition.

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