

# Adding Green Energy to Life, Value to the World



## SoyutWind 500 kW

Generate Your Own Energy  
Reduce Costs and Increase  
Productivity



**SoyutWind 500 kW**, with a rated power of 500 kW and a rotor diameter of 49 meters, delivers an impressive energy yield. Its design ensures long-term advantages with minimal operational costs throughout its entire lifespan.

► The turbine is engineered to achieve high power output while maintaining low noise levels, and it begins generating electricity at wind speeds as low as 3 meters per second.

### Key Benefits

#### ► Proven and Efficient

Our Permanent Magnet Generator (PMG) technology optimizes energy capture, outperforming traditional geared turbines, and significantly reduces maintenance expenses by eliminating costly repairs.

#### ► Tailored for Low to Medium Wind Conditions

SoyutWind 500 kW is specifically engineered for sites with low to medium wind speeds, performing optimally in areas where the average annual wind speed ranges between 5 and 7.5 m/s.

#### ► Highly Reliable

Reinforced blades and compliance with the stringent IEC 61400-1 design standards ensure exceptional reliability, allowing the turbine to endure extreme weather, including hurricane-force winds.

#### ► Grid Connection

An integrated grid interface cabinet facilitates a seamless connection to the low-voltage grid.

### 2 Year Warranty

Our warranty covers the turbine for up to 2 years, with service plans that can extend up to 20 years. A variety of service packages are available to accommodate different customer requirements.

## SPECIFICATIONS

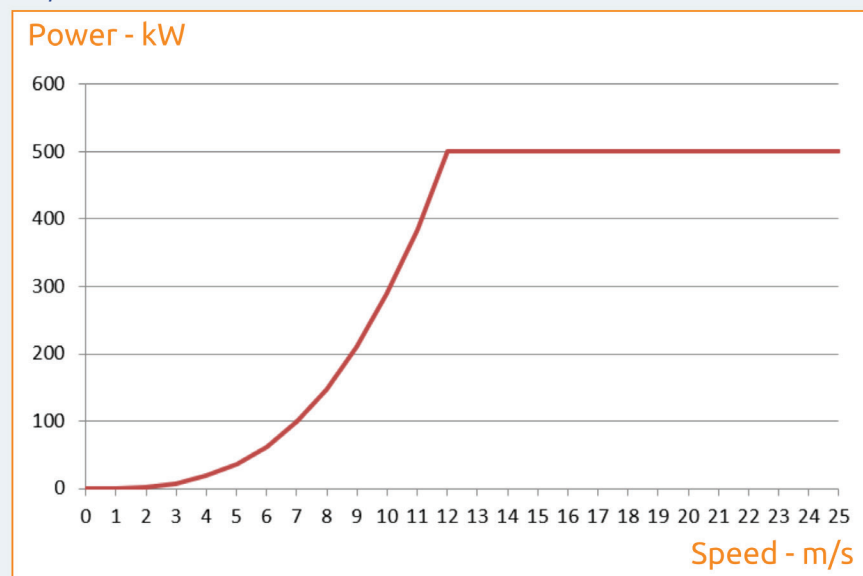
### SoyutWind 500 kW

#### 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 <sup>2</sup>
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



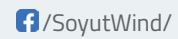
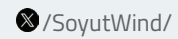
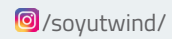
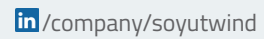
SoyutWind 500 kW Power Curve



Wind Speed (m/s)		0	1	2	3	4	5	6
Power (kW)		0	0.3	2	8	18	36	62
7	8	9	10	11	12	13	14-25	
99	148	211	289	384	500	500	500	



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SoyutWind is a subsidiary of ÇOLAK Holding A.Ş.

