

SWPI9.4kW&25kW

16TV20 WIND TURBINE
16TG20 WIND TURBINE



Solid wind power offers
our customers a **proven and
well-tested technology.**

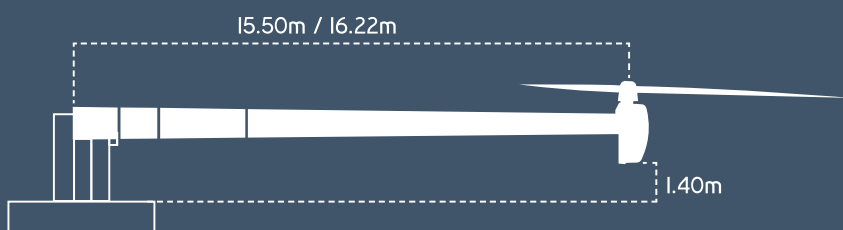
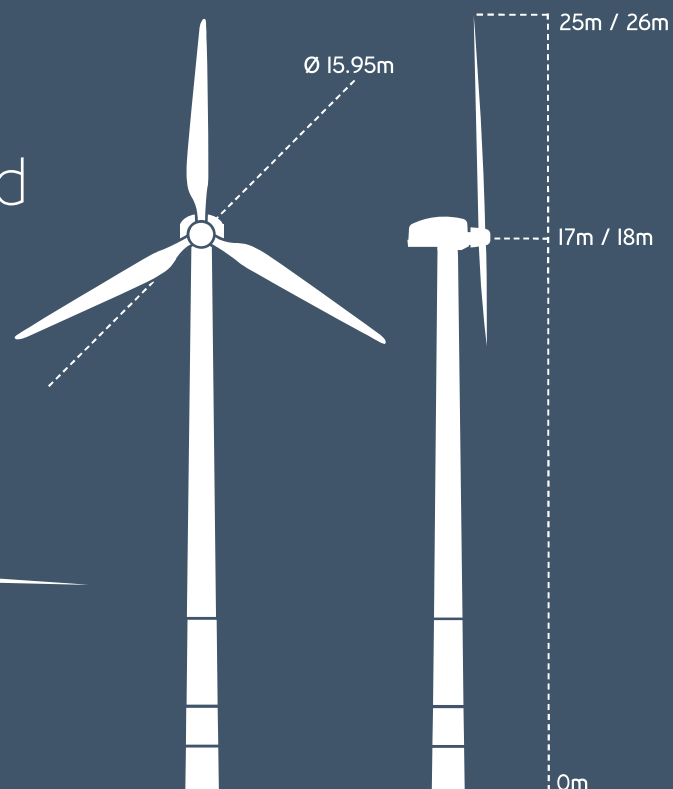
Solid wind power

– Investors' best choice for small wind



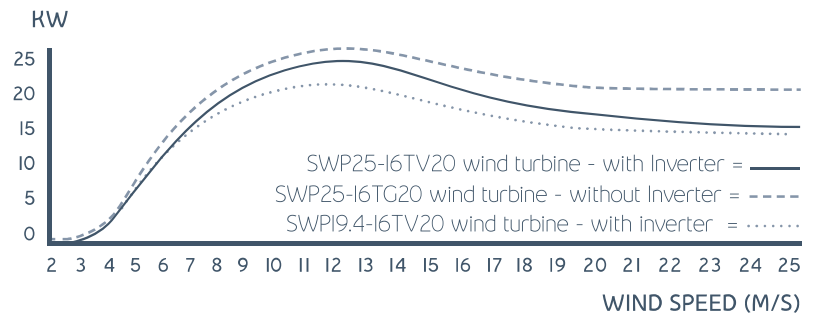


The result of our R&D is an innovative **SWP-25kW** wind turbine which is reliable, efficient and silent.





IEC 61400-12 Tested power curve



Annual Energy Production (kWh) at average wind speed (m/s)

Wind Turbine	4 m/s	5 m/s	6 m/s	7 m/s	8 m/s
SWP25-I6TV20 (with Inverter)	41,000	66,100	89,300	105,000	115,400
SWP25-I6TG20 (without Inverter)	44,600	72,600	98,100	118,900	134,200
SWP 19.4-I6TV20 (with Inverter)	37,400	60,900	80,400	94,500	102,900

1.225 kg/m³ air density

OUR BLADES Ensuring high performance

Blades are the most important part of a wind turbine as they determine how much power will be harvested from the wind. To optimise the turbine, **Solid** wind power has developed its own state-of-the-art blade technology and designed high-performing blades. The blades are the backbone of one of the best LCOE performances (Levelized Cost of Energy) in the small wind turbine market. **Solid** wind power has developed and implemented a lightning protection system (blade tip and nacelle receptor, 600 Coulombs), which intercepts direct lightning strikes in order to prevent the turbine from sustaining mechanical damages. The system has been tested by a third party.

OUR EXPERIENCE Ensuring reliability and quality

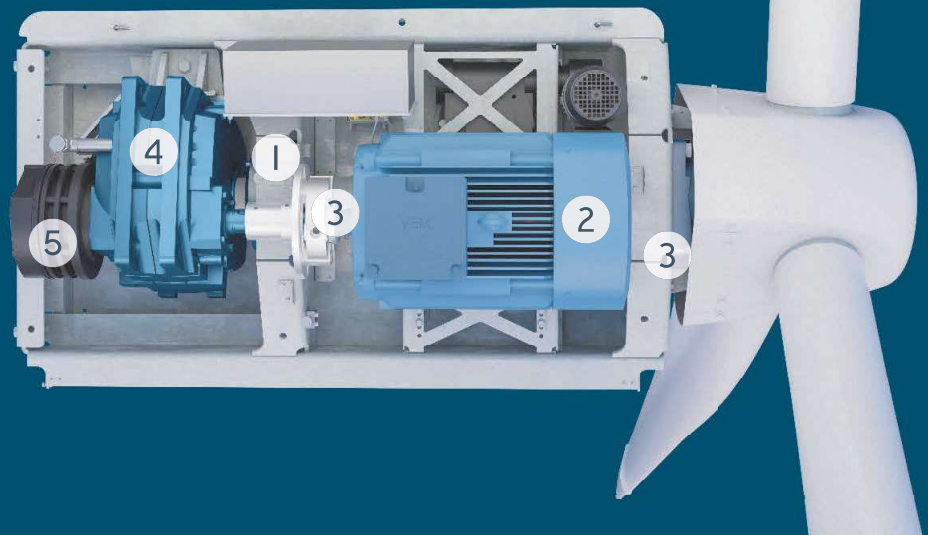
Denmark is the cradle of modern wind turbine technology, where our employees have grown up. Our engineers and technicians have used their extensive experience to design and produce wind turbines, using the newest technologies and tools.

OUR SCADA SYSTEM Ensuring easy maintenance

An advanced SCADA system has been created and tailored for **Solid** wind power turbines and is available in English. The SCADA system is remote controllable and adjustable by either the SCADA-APP or web access. Service technicians can easily restart turbines using either a PC or a cell phone. This maximises uptime of the turbine.

COMPONENTS

- 1 Main Shaft
- 2 Generator
- 3 Main Bearing
- 4 Gearbox
- 5 Brake System



TECHNICAL DATA

Wind class	IEC Class II
Rated power	19.4kW - 25kW
Rotor diameter	15.95 m
Hub height	17m/18 m
Swept area	199.8 m ²
Nominal wind speed	10 m/s
Starting wind speed	3 m/s
Cut-out wind speed	25 m/s
Survival wind speed	59.5 m/s
Rotations per minute	Up to 51 RPM

GENERATOR

Manufacturer Germany

GEARBOX

Manufacturer Sweden

BLADES

Manufacturer Solid production - Denmark

CONTROLLER

Manufacturer Controller Orbital - Denmark
Manufacturer Inverter DVE Technologies - Denmark

YAWING SYSTEM

Manufacturer BJ gear - Denmark

WEIGHT

Nacelle incl. hub	1257 kg
Rotor	450 kg
Controller	290 kg
Inverter	70 kg
Tower (18 m) on tilt foot	3150 kg



Produced in Denmark 

Please visit www.solidwindpower.com for more in-depth information about the **SWP 19.4kW & 25kW**

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