

### **JET-TEST**

The voluntarily JET-test - simulation for grid connection for SWP 19,8kW - is completed.

### **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 optimize the turbine, **Solid** wind power has developed its own state-of-the-art blade technology and designed high performing blades. The blades are equipped with a lightning protection system. **Solid** wind power has developed and implemented a lightning protection system (blade tip and nacelle receptor, 600 columns), which is intercepting direct lightning strikes in order to prevent the turbine for mechanical damages. The system has been tested by third party.

#### **OUR LAYOUT**

# Ensuring low sound emission

In the wind turbines, sound emission is also created by vibrating parts (gearbox, generators). To reduce vibrations, **Solid** wind power has adopted innovative technology from the automotive industry, where it has been used for many years. The SWP-I9.8 nacelle is divided in two parts - top and bottom - which are separated by vibration dampers.

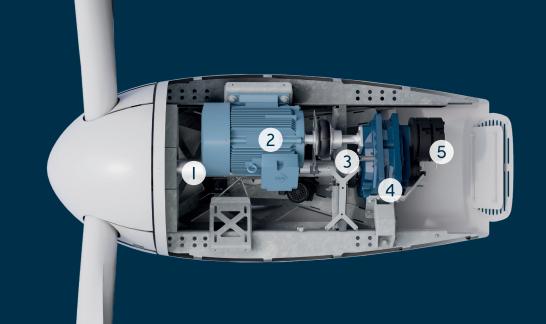
### **OUR SCADA SYSTEM**

## Ensuring easy maintenance

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

## Components

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



### **TECHNICAL DATA**

Windclass	IEC Class III
Rated power	19.8kW
Rotor diameter	14 m
Hub height	18 m
Swept area	154 m <sup>2</sup>
Nominal wind speed	IO m/s
Starting wind speed	3 m/s
Cut-out wind speed	25 m/s
Survival wind speed	52.5 m/s
Rotations per minute	Up to 50 RPM

### **GENERATOR**

Manufacturer Germany

### **GEARBOX**

Manufacturer Sweden

#### **BLADES**

Manufacturer Solid production - Denmark

### CONTROLLER/INVERTER

Manufacturer Controller Orbital - Denmark Manufacturer Inverter DVE Technologies - Denmark

### YAWING SYSTEM

Manufacturer BJ gear - Denmark

### **WEIGHT**

Nacelle	1450 kg
Rotor	390 kg
Controller/Inverter complete	360 kg
Tower (I8 m) on tilt foot	3100 kg















Please visit www.solidwindpower.com for more in depth information about the

SWP-I9.8kW

Solid wind power Stålvej 8 6900 Skjern, Denmark +45 97 32 33 22 mail@solidwindpower.com

Solid wind technology Japan KK Level 28 Shinagawa Intercity Tower A 2-I5-I Konan Minato-ku Tokyo 108-6028, Japan











