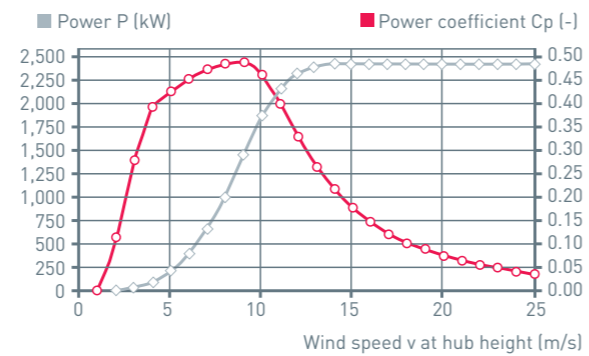


Appendix A:
Wind Turbine Generator Specifications



Calculated power curve



| Wind (m/s) | Power P (kW) | Power-coefficient Cp (-) |
|------------|--------------|--------------------------|
| 1 | 0.0 | 0.00 |
| 2 | 3.6 | 0.11 |
| 3 | 29.9 | 0.27 |
| 4 | 98.2 | 0.38 |
| 5 | 208.3 | 0.41 |
| 6 | 384.3 | 0.44 |
| 7 | 637.0 | 0.46 |
| 8 | 975.8 | 0.47 |
| 9 | 1,403.6 | 0.47 |
| 10 | 1,817.8 | 0.45 |
| 11 | 2,088.7 | 0.39 |
| 12 | 2,237.0 | 0.32 |
| 13 | 2,300.0 | 0.26 |
| 14 | 2,350.0 | 0.21 |
| 15 | 2,350.0 | 0.17 |
| 16 | 2,350.0 | 0.14 |
| 17 | 2,350.0 | 0.12 |
| 18 | 2,350.0 | 0.10 |
| 19 | 2,350.0 | 0.08 |
| 20 | 2,350.0 | 0.07 |
| 21 | 2,350.0 | 0.06 |
| 22 | 2,350.0 | 0.05 |
| 23 | 2,350.0 | 0.05 |
| 24 | 2,350.0 | 0.04 |
| 25 | 2,350.0 | 0.04 |

$\rho = 1.225 \text{ kg/m}^3$

Technical specifications E-92

Rated power: 2,350 kW
Rotor diameter: 92 m
Hub height in meter: 84 / 85 / 98 / 104 / 108 / 138
Wind zone (DIBt): WZ III
Wind class (IEC): IEC/EN IIA
WEC concept: Gearless, variable speed, single blade adjustment

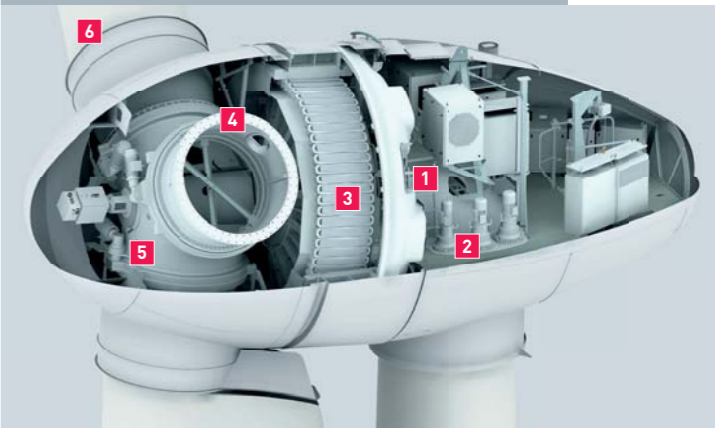
Rotor
 Type: Upwind rotor with active pitch control
 Rotational direction: Clockwise
 No. of blades: 3
 Swept area: 6,648 m²
 Blade material: GRP (epoxy resin); Built-in lightning protection
 Rotational speed: Variable, 5 - 16 rpm
 Pitch control: ENERCON single blade pitch system; one independent pitch system per rotor blade with allocated emergency supply

Drive train with generator
 Main bearing: Double row tapered/cylindrical roller bearings
 Generator: ENERCON direct-drive annular generator
Grid feed: ENERCON inverter
Brake systems: - 3 independent pitch control systems with emergency power supply
 - Rotor brake
 - Rotor lock
Yaw system: Active via yaw gear, load-dependent damping
Cut-out wind speed: 28 - 34 m/s (with ENERCON storm control*)
Remote monitoring: ENERCON SCADA

* For more information on the ENERCON storm control feature, please see the last page.

E-92

2,350 kW



- 1 Main carrier
- 2 Yaw drive
- 3 Annular generator
- 4 Blade adapter
- 5 Rotor hub
- 6 Rotor blade