

# 82 (e.n.o. energy)

## Main data

Rated power: 2000 kW  
Rotor diameter: 82.4 m  
Old model  
Class: IEC IIIa (BIDt II)  
Offshore model: no

## Rotor

Number of blades: 3  
Type: Pitch  
Swept area: 5332.7 m<sup>2</sup>  
Power density: 2.67 m<sup>2</sup>/kW  
Maximum speed: 18,7 rd/min  
Manufacturer: LM Glasfiber

## Tower

Minimum hub height: 58,6 m  
Maximum hub height: 108 m

## Weights

Nacelle: 60 t  
Rotor + hub: 38 t  
Tower: 62,3 - 254,7 t  
Total: 181,6 - 374,0 t

## Gearbox

Gearbox: yes  
Stages: 3  
Gear ratio: 96  
Manufacturer: Bosch Rexroth

## Wind speeds

Cut-in wind speed: 2,5 m/s  
Rated wind speed: 13 m/s  
Cut-off wind speed: 25 m/s

## Generator

Type: DFIG  
Number: 1  
Maximum speed: 1800 rd/min  
Voltage: 690 V