

EMU DOWNS WIND FARM GENERAL INFORMATION

The Emu Downs Wind Farm (EDWF) was opened by the Premier of Western Australia, Alan Carpenter and began production in 2006.

The wind farm is located approximately 30km inland of Cervantes off Bibby Road near the Brand Highway. A custom built public car park provides interesting information and allows panoramic views of the wind farm. The wind farm is an operational industrial plant and visits are by appointment only.

The 48 Wind Turbine Generators (WTG) convert kinetic energy in the wind to electrical energy which is exported into the Western Power's electrical grid at 132,000 Volts. The wind resources at EDWF are strong and reliable allowing the wind farm to export electricity all year round.

STATISTICS	
Wind Farm Capacity	80MW
Average Energy Exported Per Year	260GWh
Greenhouse Gas Savings Per Year	280,000 tonnes
Equivalent Homes Powered Per Year	50,000
Number Of Turbines	48
Rated Output Per Turbine	1.65MW
Turbine Hub Height	68.5m
Blade Length	41m
Blade Rotational Speed	14.4m/s

Table 1: Emu Downs Wind Farm Statistics

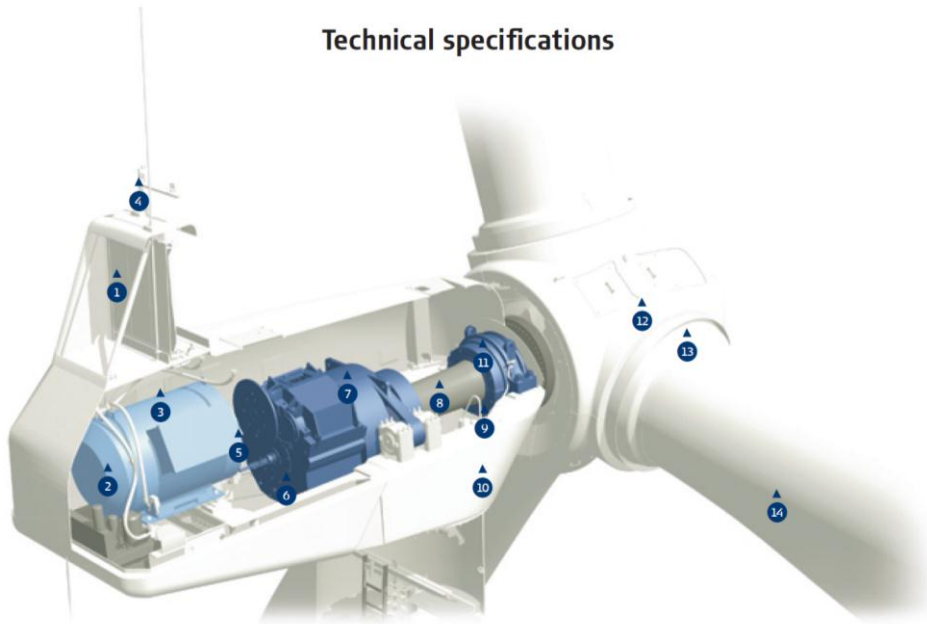


Photo 1: Wind Turbine Generator



Photo 2: Panoramic view from the public car park

Technical specifications



- 1 Cooler
- 2 Generator
- 3 Nacelle controller
- 4 Anemometer windvanes
- 5 Coupling
- 6 Mechanical brake
- 7 Gearbox
- 8 Main shaft
- 9 Yaw gears
- 10 Machine foundation
- 11 Main bearing
- 12 Hub controller
- 13 Pitch system
- 14 Blade
- 15 Main panel
- 16 Phase compensation
- 17 Ground controller

Example of tower internal configuration.

Diagram 1: Wind Turbine Generator Internal Views



EMU DOWNS WIND FARM CONTACT DETAILS

Normal Hours:

General Enquiries - Phone: 0429 368 362

Site Supervisor - Phone: 0429 368 363

After Hours & Emergencies:

Standby Technician - Mobile: 0428 962 116

Site Supervisor - Mobile: 0409 558 810

Jurien Bay Fire & Rescue Service - Phone: (08) 9652 1269

All Hours:

Fax: (08) 9287 1144

Email: Janine.Ackland@APA.com.au

Addresses:

Postal Address: PO Box 21, Cervantes, WA 6511

Site Office: 979 Bibby Road, Badgingarra, WA 6521

Managing Company: EDWF Manager Pty Ltd (ABN 50 115 374 386)

Registered Office: 580 George Street, Sydney, NSW 2000

Owner Company: APA Group