



Cleanfield Energy V3.5 Vertical Axis Wind Turbine



Cleanfield Energy is a Canadian based company and a subsidiary of Cleanfield Alternative Energy which was established in 2002. Cleanfield has developed an innovative 3.5kW modular Vertical-Axis Wind Turbine (VAWT) that can be used almost anywhere, by homes and businesses alike.

It was designed in response to increasing demand for wind turbines that work well in the urban environment, where wind speeds are lower and wind directions change frequently with the added benefit of virtually silent operation.

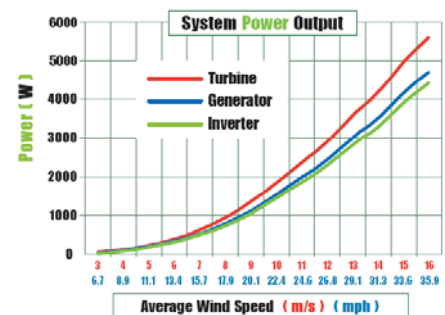
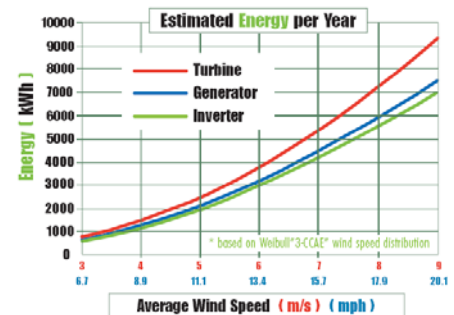


Technical Specification

Rotor Size	3.11m tall, 2.75m diameter, Swept area 13.6m ² , Mass 245kg
Materials & Design	Blades: Reinforced fibreglass No. of Rotor blades: 3 No. of Spokes: 6
Colour	Standard rotor is white. Masts are galvanised steel as standard (silver) or can be painted or marine coated
Generator	Direct-drive 3 phase magnet generator (PMG) integrated into base of the rotor
Power	Peak power at 16m/s = 4.5kW DC Rated power at 12.5m/s = 3.0kW DC Estimated AEP at 11m/s = 2000kWh
Operating wind speeds	Rated RPM: 160, Max RPM: 190 Self starting rotor Cut in speed: 3m/s Survival speed: 45m/s (built-in safety brake)
Grid Connection	Single or 3 phase grid connection

FEATURES

- Operates in turbulent wind
- Roof or ground mounted
- On-Grid connection
- Integrated system design
- Low maintenance
- Quiet operation



Specification subject to change without notice

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