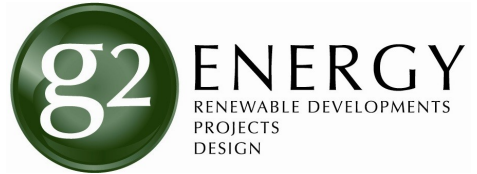
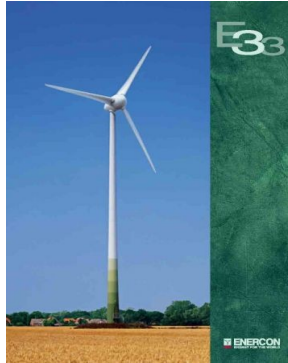


' *Delivering success together* '



Enercon E33 - 330 kW Turbine



Manufacturer: Enercon

Model: E-33

Web site: <http://www.enercon.de/en/e33.htm> -33

Budget Installed Cost: £700,000 (this cost may vary, depending on the proximity of the grid connection).

Power Output: 330kW (this is the generated power at the optimal wind speed of around 13 m/s, however will start generating at a cut in speed of just 3 m/s).

Voltage: 415Vac, 50Hz, 3-Ph

Blade Diameter: 33m

Tower Heights: 37m or 44m or 50m (depending on site characteristics – the higher the better for wind speeds).

7m/s Output: 950,000kWh (check out—<http://www.decc.gov.uk/en/windspeed/default.aspx> for the wind speed at your site).

Carbon Saving: 510T per annum (at a wind speed of 7 m/s).

Feed In Tariff (FIT) Rate: 18.8 pence per generated kW guaranteed for 20 years

Export Rate: 3 pence per kW exported to grid.

FIT Income: £178,600 (at 18.8p per unit of electricity generated).

Export Income: £28,500 (at 3p per unit sold back to the grid).

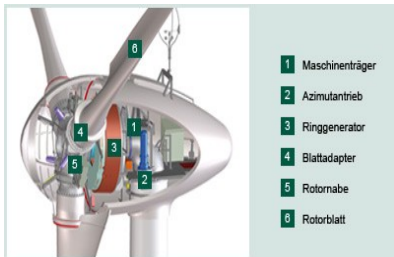
Total Annual Revenue: £207,100

Estimated Payback: 3.5yrs (estimated as £700k initial investment with a £207k PA revenue).

Annual Costs: £20,000 including annual maintenance, extended warranty cover, insurance and annual grid connection charges

Estimated Total Profit on Investment: £3 Million (based on a minimum life expectancy of 20 years with an annual maintenance and insurance cost of £20,000 – therefore $£187,100 \times 16.5 \text{ years} = £3,087,150$).

This 330kW turbine's design and technology is based on the larger well established and proven mega watt turbines, however due to its compact design it is capable of being installed practically anywhere. Being a "direct drive" machine with no gear-box means reduced maintenance, reduced noise and increased reliability.



Contact our Earthing Design team at G2 Energy:

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