

About Us

"Evoco" means "to produce" in latin and romance languages. So, what are we about? Evoco Energy - the clue's in the name!

Due to our technology's ability to 'produce' we can offer the highest possible performance and financial return, and the shortest possible payback period from a small-scale wind turbine.

Maximising capacity without maximising costs, our high performance turbines also lead the way at the cutting edge of design, offering contemporary yet robust aesthetics coupled with supreme build quality. Our confidence in our products and promise is sky high, enabling us to offer a five-year warranty.

With 30 years of global trading you can depend on us to deliver on the Evoco promise.

About the 10kW

Our flagship 10kW turbine, billed as the next generation wind turbine, has been designed from the outset to epitomise what Evoco stands for, delivering a renewable and financial return on investment unrivalled in the small wind sector.







Through efficient manufacturing and innovative design, and without compromising on quality or robustness, Evoco have been able to develop a turbine with superior performance and durability, yet at a price point which allows unbeatable return on investment.

The Evoco 10kW is specifically designed for high reliability, low maintenance and automatic operation in adverse weather conditions, yet a low rotation speed ensures that the Evoco 10kW remains quiet and inobtrusive.

The Evoco 10kW is grid connected, practical and perfect for supplying electricity to properties such as farms, large residences, schools, offices, businesses and public buildings. An Evoco Energy wind turbine allows you to generate your own green energy, effectively reducing your carbon footprint and publicly promoting your commitment to renewable energy.

Put simply, the Evoco 10kW is a turbine that delivers.

Key Statistics

-  21,100kWh p.a. at 5m/s mean wind speed
-  30,400kWh p.a. at 6m/s mean wind speed
-  38,100kWh p.a. At 7m/s mean wind speed
-  Payback 2.5 to 4.5 years (5.5m/s to 7.5m/s)
-  MCS Transition Product 231 - Clean Energy Cash-back - 26.7p/kWh
-  Effective annual income up to £15,000 p.a.

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Technical Specification



General

Turbine Type	Downwind Horizontal Axis, Self Regulating
Life expectancy	20 years
Service/maintenance	Initial 3 month inspection / Annual thereafter
Nominal power	10 kW
Cut in wind speed	< 3 m/s (<6.7mph)
Nominal wind speed	10 m/s (22.2mph)
Survival wind speed	59.5 m/s (132mph)
Passive power regulation	Pitch to Stall
Safety	Manual Pitch Control Electrical Brake
Noise emission	<54dB @ 60m and 5m/s* (11.1mph)
Warranty	5 years standard

Electrical

Grid voltage	230V/400V ±10% (1ph/3ph)
Grid frequency	50/60Hz ±3Hz
# Phases	Single (G59/1) or Three-Phase (G83/1)
Converter type	Custom Grid Tied Inverter with pre-programmed 40 point power curve
Control System	Overvoltage Control System

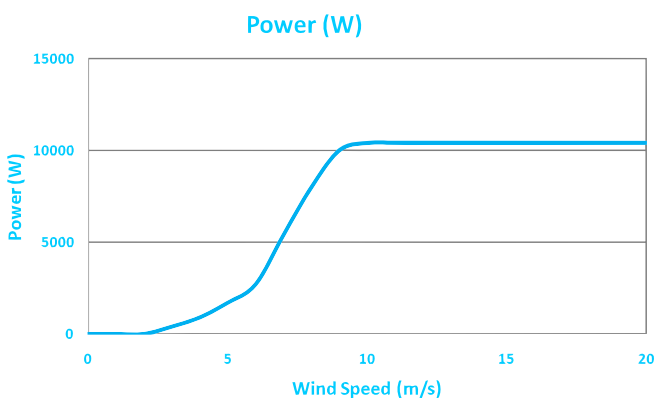
Rotor

Number of blades	3
Diameter	9.7 m
Position	Downwind
Swept area	74 m ²
Speed	Variable 0 – 120rpm @ 10kw
Power regulation	Passive Pitch
Blade length	4.4m
Construction	Carbon and glass fibre reinforced epoxy

Generator

Gearbox	None
Generator	Brushless PMG
Voltage	0-500V
Frequency	Variable

Power Curve



Estimated Annual Generation

5m/s	21,100kwh
6m/s	30,400kwh
7m/s	38,100kwh

Standards

G-83/1, CE, BS EN 61400, BS7671, BS 5760-7, Currently on Test for MCS Product Certification

MCS Transitional Product 231

Tower Options

12m

Type	Tubular – hydraulic tilt up
Number of sections	3
Tower height	12m
Material	Hot dip galvanised steel

15m

Type	Tubular - hydraulic tilt up
Number of sections	4
Tower height	15m
Material	Hot dip galvanised steel

18m

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Weights

Nacelle excluding rotor	460kg
Rotor	375kg
Blades (each)	50kg

12m Tower

Base Section	280kg
Lower Section	1135kg
Top Section	650kg

15m Tower

Base Section	366kg
Lower Section	1150kg
Middle Section	942kg
Top Section	583kg

Provisional power curve – Pre-MCS. This power curve has been measured as closely to EN61400-12. This will be updated upon release of MCS approved power curve.

* Full noise report will be available following MCS noise testing