



eec

wind turbines



About EEC Wind Turbines

European Environmental Controls Ltd was established in 1991 and has been in business for 20 years. We are an ISO9001:2008 accredited company who have been fully audited and approved.


We are a successful business with a multi million pound turnover trading from a 3/4 acre business centre in southport. We are one of the Evoco approved resellers for their MCS wind turbines.

Evoco Energy is part of a successful family of companies which combined, has a 30 year trading history, a multi-million pound turnover and multinational operations, driven by a dynamic team with a track record of success.

Evoco have invested substantially into research and development and have a dedicated, state-of-the-art factory with capacity to deliver 5,000 high quality, small scale wind turbines to the global market each year.

Evoco wind turbines offer market-leading energy performance which has been independently verified by a UKAS accredited agency. Ultimately, we aim to provide all of our customers with complete reassurance that the return on investment from an Evoco turbine will surpass your expectations. We support our customers with a comprehensive five year warranty and the Evoco 10kWp has a twenty year design life conforming to the BWEA Small Wind Performance and Safety Standard.





EEC Wind Turbines Company Overview

- Over 20 years in Business
- Multi Million Pound Turnover
- Over 150 Staff Members
- MCS Certified Company
- MCS Certified Product (Wind Turbines)

“With MCS as the gold standard for quality assurance and consumer protection, Evoco are proud to join the elite few manufacturers who have managed to pass this stringent testing regime to achieve Clean Energy Cashback eligibility.”

Julian Wiley, Chairman (Evoco)

“Having led the LNT Group onto the Sunday Times’ Fast Track 100 with a value of £400 million, I am confident Evoco is destined for similar success having developed industry leading products.”

Lawrence Tomlinson, Director (Evoco)

Evoco 10kWp Turbine

Since becoming one of the first turbines to achieve full MCS certification, the Evoco 10kWp wind turbine has rapidly become a favourite amongst farmers and rural land owners. Evoco's mission is to offer a class-leading return on investment and with the Evoco 10kWp investors can easily achieve a very short payback, typically in less than the 5 year warranty period.

The Evoco 10kWp turbine has been specifically designed to reliably deliver high generation performance in harsh wind conditions. Producing an energy yield with the potential to generate an income of up to £14K per annum* the Evoco 10kWp retains a robustness and dependability synonymous with the Evoco Energy brand.

With an energy yield of up to 45,000 kWh per annum, equivalent to the requirements of ten average households, the Evoco 10kWp is ideally suited to producing electricity for larger properties such as farms and rural residences. All of the energy produced earns a generous Clean Energy Cashback (FITs) payment whether it is used on site or is surplus to local requirements and is fed onto the national grid.

An Evoco Energy wind turbine allows you to produce your own green electricity, generate an additional income and effectively reduce your carbon footprint whilst publicly promoting your commitment to renewable energy.

* based on a mean wind speed of 7.5m/s.



Key Benefits

- Fully MCS certified wind turbines
- Compatible with single, dual and three phase electricity supplies (line upgrades are not normally required)
- Hydraulic towers for easy installation and servicing (no cranes required)
- IEC61400 Class II Turbine - Suitable for high wind sites (no shutdown in high winds)

Feed-in Tariffs Made Simple

- Earn: Income from the Feed-in Tariff for all the energy your turbine generates
- Use: All that your wind turbine produces saving on your electricity bill
- Sell: Any excess energy back to the national grid

Annual Energy Production - Expected Generation and Savings

5m/s: 21,706kWh/yr = £7,000.00 p.a.

6m/s: 31,176kWh/yr = £10,000.00 p.a.

7m/s: 39,649kWh/yr = £13,000.00 p.a.



A Partnership Built to Last

The Evoco 10kWp wind turbine has undergone a four year period of R&D and in-house testing prior to being released to the UK market.

As a result, the Evoco 10kWp can withstand harsh winters and wind speeds in excess of 90mph, and has been refined to suit the needs of all customers. As part of our commitment to continuous product improvement, the Evoco 10kWp is certified under the UK's Microgeneration Certification Scheme, exceeding the requirements of MCS 006, MCS 010, BWEA Small Wind Turbine Performance and Safety Standard, and IEC61400 - 2.

The Evoco 10kWp is a tried and tested machine which can be trusted to deliver dependable generation, year after year.





“Evoco wind turbines provide us with both our electricity and an extra income, generating up to £14,000 P.A. As an investment it beats any bank or pension scheme.”

Mr Allen and Mrs Riley - Evoco 10kWp 15m tower

“Living with my turbine for 3 years has helped Evoco perfect it for you!”

Mr Wiley - Evoco Chairman - Evoco 10kWp 15m tower

“I’m really impressed with the payback and the yearly income generated - tax free!
- I’m now happy to recommend it to all of my friends.”

Mr Keegan - Evoco 10kWp 12m tower

Your Turbine Installation



Site prior to installation
- All components are delivered in advance to begin assembly.



Turbine foundation steelwork being assembled.



Concrete filled and levelled - Requires approximately 2- 3 week curing period prior to turbine installation.



Turbines are installed using hydraulic power packs and rams for fast installation without the need for heavy lifting equipment. Turbines are typically raised in 5 minutes.

Foundations being prepared
- Foundations are excavated
to approx. 3.3m x 3.3m x
1.5m dependant on ground
conditions.



Fully assembled
foundation structure
being lowered into
ground.



Following levelling
of foundation
structure concrete
is poured.



Tower sections
being installed.
All towers are
supplied in sections
for ease of delivery.



Fully commissioned
and operational.

10kWp Specifications

Turbine Type	Fully MCS Approved, 3 Blade, Downwind Horizontal Axis, Self Regulating
Rated power output	9.55kWp @ 11m/s (24.5mph) BWEA Reference Power
Rotor	3 Blade, 9.7m Diameter, Reinforced Moulded Glass Fibre, 74m ² Swept Area
Product Design Life	20 Years, Maintenance Programme Annually
Generator	Variable Frequency Brushless PMG, 0-500V
Towers	12m and 15m, Hydraulic Tilt-up
Safety	Passive Pitch to Stall, Braking Load, Manual Pitch, Manual Electronic Brake
Cut-in Wind	Speed 2.5m/s (5.6mph)
Cut-Out Wind Speed	Continuous Generation to Survival Speed
Survival Speed	59.5 m/s (132mph)
Acoustic Emissions	BWEA Declared Apparant Sound Pressure Level = 96.4dB (A)
	BWEA Reference Sound Level at 8m/s and 60m Distance = 52.9dB (A)
Warranty	5 Years Standard
Carbon Displaced	Est. 11.4 Tonnes @ 5m/s Annually
IEC Turbine Class	Conforms to IEC61400 to Class II - AMWS up to 8.5 m/s (19mph)
Standards	Full MCS Product Certification (MCS Product MCS WT0054/01) Clean Energy Cashback Eligible, CE certified, BS EN 61400, G-83 certified

Annual Energy Production (AEP)	
5 m/s (11.4mph)	21,706 kWh/yr BWEA Ref Annual Energy
6 m/s (13mph)	31,176 kWh/yr
7 m/s (15.6mph)	39,649 kWh/yr
8 m/s (17.9mph)	46,766 kWh/yr
	MCS Testing: Narec <small>(New and Renewable Energy Centre)</small> MCS Certification: BRE Global

The Evoco 10kWp standard system includes:

Turbine, Rotor,
Generator
12m Tilt-up Tower
Inverters
Controller
Braking Load
Foundation Kit

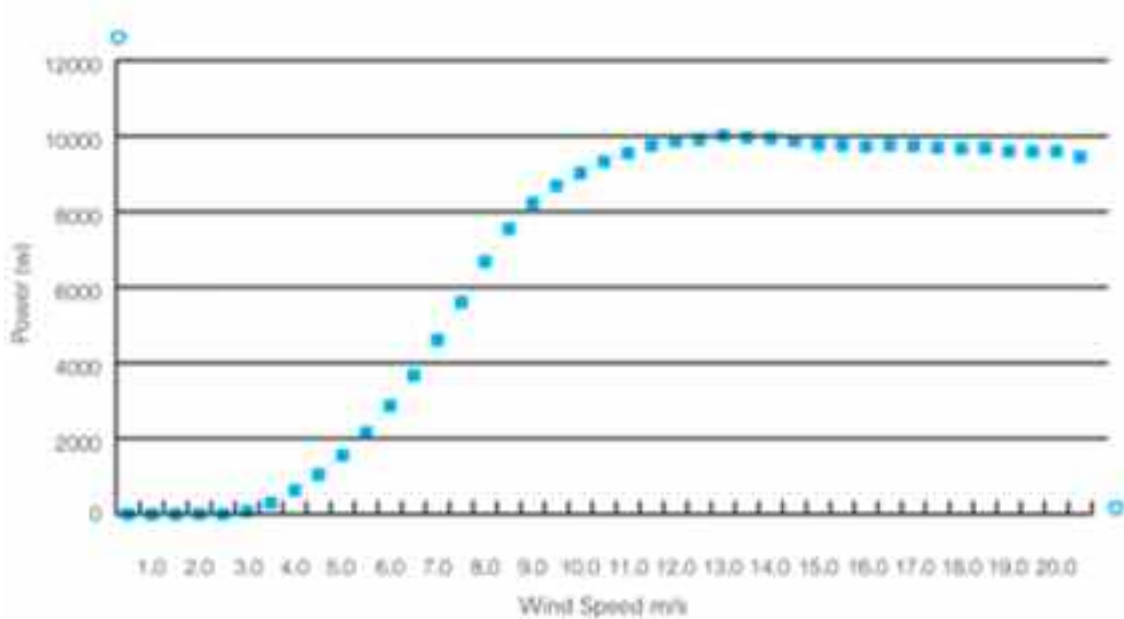
The following items are available as upgrades:

15m Tower Upgrade
Web Monitoring
Hydraulic Ram
Power Pack



Evoco 10kWp Power Curve

(MCS Approved - Normalised to Sea Level Air Density of 1.255kg/m³)



EEC Wind Turbines will be with you every step of the way from helping with your planning requirements to the full installation and commissioning of your wind turbine.



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eec plumbing • eec security

eec solar • eec electrical

European Environmental Controls Ltd

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