

REPOWERING WILL DOUBLE YOUR RETURNS



Replace your installed 150-250kW wind turbine with a state-of-the-art EWT DirectWind-250kW machine and:

Boost energy yield - at least doubling your power output!

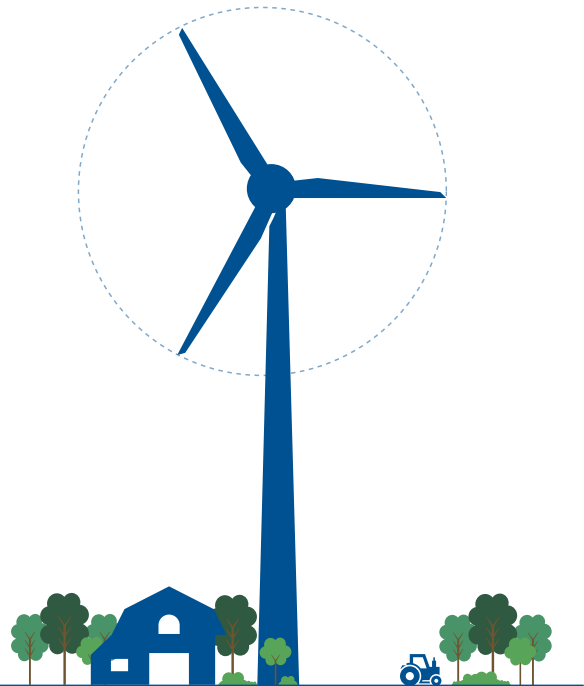
Improve performance and availability

Maximise your return on investment

Interested?
 Call: 0777 559 6943
 Email: RepowerNI@ewtdirectwind.com



Wind Turbine 27m rotor
 Hub height 30m



EWT Direct Wind 54m rotor
 Hub height 40m

Average Wind Speed	225 kW Wind Turbine *			EWT DW54-225kW		
	kWh/yr	£ per year	£ 16 years	kWh/yr	£ per year	£ 16 years
6.0 m/s	400,000	£84,000	£1,344,000	1,050,000	£220,500	£3,528,000
6.5 m/s	480,000	£100,800	£1,612,800	1,154,000	£242,340	£3,877,440
7.0 m/s	560,000	£117,600	£1,881,600	1,225,000	£257,250	£4,116,000

* Data taken from variablepitch.co.uk., 27m rotor and 30m hub height.

REPOWERING

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EWT's highly efficient 250kW wind turbine will achieve optimal energy yield from your site's wind resource

- ▶ The wind turbine features a 52m or 54m rotor on a 35, 40, 50 or 75m tower, allowing power output to at least double
- ▶ EWT offers direct drive technology without a gearbox. This results in lower noise levels, it reduces maintenance and minimises downtime
- ▶ The turbine has high availability levels of 98%
- ▶ The turbine can be grid-connected or operate as a stand-alone off-grid solution
- ▶ It is possible to continue operations under existing accreditations
- ▶ EWT's 250kW turbine is a proven concept, with over 25 turbines installed in Northern Ireland and over 600 worldwide

About EWT

Dutch wind turbine company Emergya Wind Technologies manufacture high-quality direct drive wind turbines, known for their outstanding performance, reliability and cost effectiveness. Experienced Operations & Maintenance professionals at EWT's head quarters in The Netherlands use specialist software to monitor over 600 operational turbines worldwide. Monitoring and turbine performance analysis take place on a 24/7 basis, which guarantees the earliest possible response to any irregularity. EWT has an established Service Team in Northern Ireland. This is to ensure a quick response time should on-site support be required.

Service programme

- ▶ Extended product warranty
- ▶ Preventive maintenance
- ▶ Corrective maintenance
- ▶ Power curve guarantee
- ▶ Availability guarantee
- ▶ Business interruption compensation

Turn-key solution

EWT offers a comprehensive repowering package for a hassle-free switch to your brand new, better performing wind turbine

- ▶ Project support and advice
- ▶ Project planning amendments
- ▶ Project specific yield comparison
- ▶ Northern Ireland Electricity Support
- ▶ Project screening (planning)
- ▶ Financing solutions
- ▶ Project redesign
- ▶ Turn-key project realisation



Our control room excellence is a key part in achieving EWT turbines' high availability (of 98%)

**MORE ENERGY
LESS COMPLEXITY**



“Our new EWT turbine produces three times as much power”

With the aim to reduce energy bills, Liam and Barney McGuckian from Cloghmills in County Antrim installed two NEG MICON wind turbines to power their pig farm and animal feed mill in 2014. When an EWT wind turbine was installed at a neighbouring quarry, the McGuckians were impressed by the power output and decided to amend their planning permit and replace the second wind turbine to an EWT. Liam said: “The EWT turbine is working out very well for us. It is producing three times the output that the existing MICON produces. We connected the EWT to the animal feed mill, which uses approximately 100.000kWh per month. We use nearly all of the EWT’s power output for the mill and the reduction in electricity costs is substantial.” Asked about working with EWT, Barney stated: “We are happy with EWT. There have been a few teething problems but EWT’s Service Team have always been available to resolve any problems. We are now planning to replace the second turbine with an EWT also.”

Specifications

EWT DW52/54 - 250kW

Rotor diameter	52 or 54m
IEC wind class	IIA / IIIA
Rotor speed variable	12 – 22 rpm
Nominal power output	250 kW
Hub heights	35, 40, 50 and 75m
Cut-in wind speed	2.5 m/s
Rated wind speed	7.3 m/s
Cut-out wind speed	25 m/s on 10 min avg
Survival wind speed	52.5 – 59,5 m/s
Power output control	Pitch controlled
Generator	Synchronous multi-pole
Power converter	IGBT-controlled

Get in touch:

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