



Reliable renewable energy for a more sustainable family business

Furrowland Ltd, located to the east of Newton on Trent, is a family run agricultural business that has been farming in Lincolnshire for generations, as both mixed arable farmers and poultry producers. Roughly 30 years ago the owners of Furrowland – the Ardens – decided that in response to changing demand from the public and supermarkets, large scale vegetable cold storage facilities would be built to diversify the business. These storage facilities, which cover 100,000 square feet, require a constant and sizeable supply of energy – as do the farm’s poultry sheds.

To provide the electricity these operations need, improve security of energy supply as well as to significantly reduce Furrowland’s energy costs, in 2014 the Ardens decided to install an EWT DW54 wind turbine. The 77 metre tall turbine – EWT’s 100th 500kW turbine in the UK – is directly connected to Furrowland’s private electrical network.



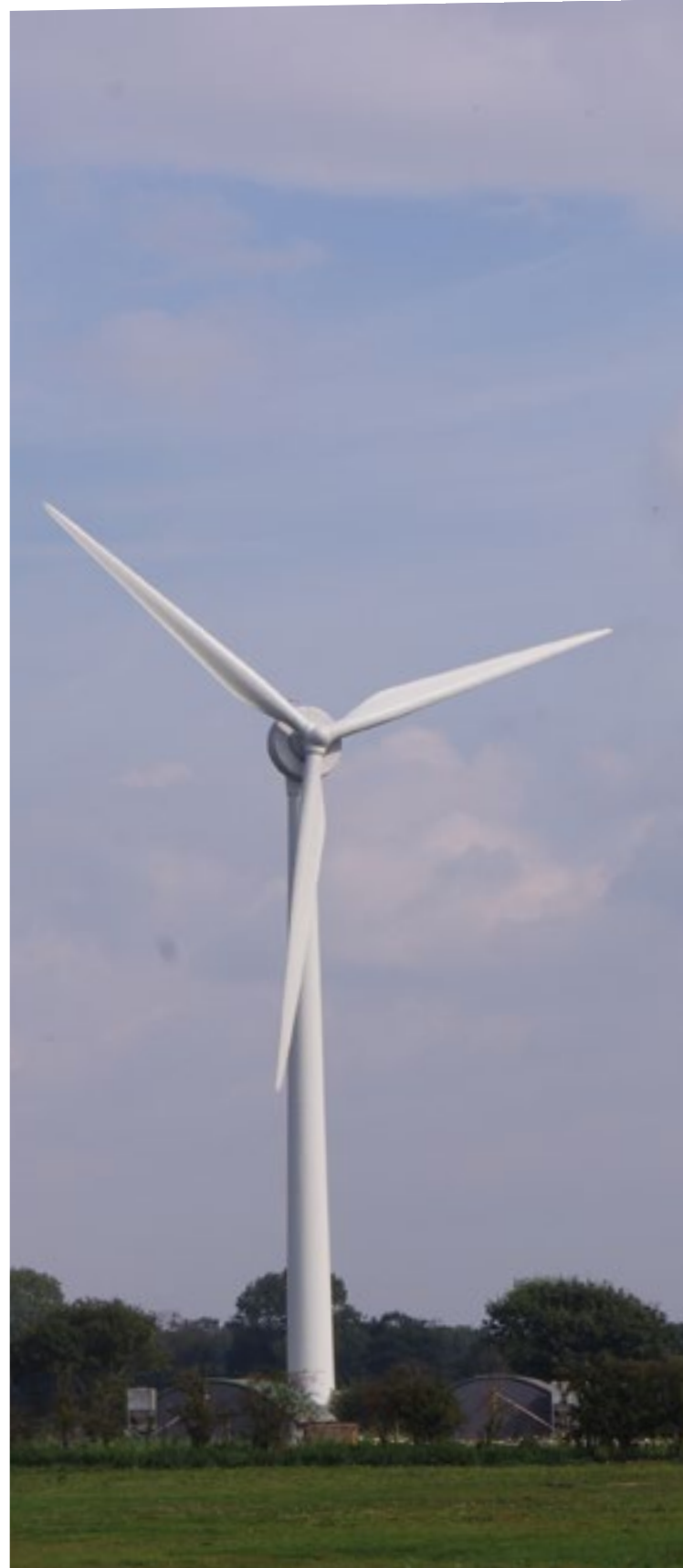
EWT Furrowland Case Study

As well as their other agricultural activities, Furrowland Ltd operates large scale cold storage facilities (providing 100,000sq ft of storage) and free-range chicken sheds that cater for 50,000 organic, free range chickens. The cold storage facility, maintained at a temperature of 1 degree Celsius, creates a stable environment for the short and long term storage of tens of thousands of tonnes of quality vegetable produce such as potatoes, onions and cabbages.

Furrowland Ltd uses approximately 1,800 MWh per annum to power their storage facilities, chicken farm, offices and workshops. The EWT turbine generates on average up to 1,615 MWh each year, and so can provide a significant portion of the electricity needed to operate the most energy intensive aspects of the business, which are the cold storage and the chicken sheds. By generating much of the electricity they need on-site, the Ardens have been able to future-proof their business against predicted increases in energy prices, increase the security of their energy supply, lower reliance on fossil fuels, reduce their energy bills and reduce their carbon footprint. All these benefits have the combined effect of securing the five full time jobs that Furrowland provides, as well as ensuring work is available for a number of contractors in the local area.

Benefits to the Company and Local Community

- The EWT turbine provides approximately 1,615 MWh of renewable, clean electricity per annum. This is equivalent to more than 80 per cent of the electricity the business needs for its most energy intensive operations – the cold storage facilities and the poultry sheds.
- This has significantly reduced energy bills, lowered reliance on fossil fuels and minimised the business' carbon footprint.
- In excess of 847 tonnes of CO₂ are saved for every year the turbine is operational. This amounts to approximately 21,200 tonnes over its predicted 25 year lifetime.
- The turbine has enhanced the job security of five full time Furrowland employees, as well as securing the future of possible contractor work in the local community.



EWT UK Ltd.

Thistle Court
1-2 Thistle Street
Edinburgh
EH2 1DD
United Kingdom
T +44 (0)131 560 1661
salesUK@ewtdirectwind.com
www.ewtdirectwind.com

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