



Reducing a poultry farm's energy costs by 75%

The Megginson family have been farming at Kirkburn Grange Farm (Driffield, Yorkshire) for 90 years. Currently, this farm is a third generation family business; in due course it will be passed on to the fourth.

The EWT turbine installed by the Megginsons has made a substantial contribution to securing the viability and future sustainability of their farming business, as well as providing future protection from projected increases in energy costs.

One aspect of the Megginson's business plan is to generate all the energy they need from on-site, renewable resources. This will create a more sustainable, secure business for the future by reducing their reliance on the national grid network for electricity and reducing operating costs. The renewable energy produced by the EWT turbine will serve as a launch pad towards achieving this ambition.



EWT Kirkburn Grange Farm Case Study



About 20-25% of the electricity generated by the EWT turbine is used at the farm.

This energy is used to power a wide range of the farm's diverse operations, including: energy intensive heating, ventilation, lighting and feeding in poultry units; cold storage of potatoes; powering a grain dryer and the broiler farm.

The farm uses approximately 600,000kWh of electricity per year.

The company currently uses over 60,000 litres of LPG and 7,000 litres of oil for the broiler enterprise. There is also a large amount of diesel and heating oil used in the farm's arable enterprise. The costs and emissions of this are now offset.

The spare capacity of renewable electricity produced by the turbine will allow for the possible future expansion of the farm's operations, or cater for increases in the businesses' demand for power.



Benefits to owner and the local community:

- The turbine has achieved substantial energy cost savings. The Megginsons used to pay approximately £40,000 per year for electricity; since the turbine was installed that figure has come down to around £10,000 per year - a 75% reduction.
- The turbine provides all the power needed for the farm's heating and ventilation process and drastically reduced the farm's carbon footprint.
- Between 610 - 1440 tonnes of CO₂ are saved per annum, compared against gas or coal fired power stations.
- The electricity produced by the turbine that isn't used directly by the farm is fed into the grid, for which the farm receives a price per MWh and the Feed in Tariff (FiT).
- The turbine generates 1650 MWh per annum. Providing surplus green energy is provided to other local users.
- The turbine has had the significant effects of diversify and buffering the farm's income.

EWT UK Ltd.

Thistle Court
1-2 Thistle Street
Edinburgh
EH2 1DD
United Kingdom
T +44 (0) 131 247 6720
F +44 (0) 131 247 6710
salesUK@ewtdirectwind.com
www.ewtdirectwind.com

Disclaimer: the information included herein is provided to you for general information purposes only. Although every effort has been made to ensure the accuracy of such information, EWT makes no representation or warranty of any kind, express or implied, as to the correctness, accuracy, reliability or completeness of the information.