



Pig Farmer Implements an E3120 50kW Turbine on Pockthorpe Farm in Drifffield UK

KEY HIGHLIGHTS

- One of the first 36 metre tower E3120 turbines installed in the United Kingdom.
- Milestone: over 250,000kWhs generated in less than 2 years of operation.
- “Overall, I am quite happy with it, the turbine is fulfilling what it said it would do and the ROI is on target, so I am happy.”
– Dave Morgan in reference to his E3120



Dave Morgan, with his wife and three daughters operate Pockthorpe Farm in Drifffield, East Yorkshire which the family purchased in 1996 from a previous farmer. At the time of the purchase there were no pigs on site but by 2006, Dave had grown the farm to 600

pigs. Since then this drove has more than doubled and Pockthorpe Farm is currently home to 1600 pigs. Situated on 50 acres of farmland in Kilham, the farm is primarily used for piglet production. However, by increasing the livestock on the farm, Dave soon realized

that his electricity costs were soaring. The majority of electricity required to operate the farm was being used for heating purposes to keep his piglets comfortable. In an effort to offset his escalating energy costs, Dave decided to install an Endurance E3120 50kW wind turbine which brought an additional revenue opportunity through feed-in tariffs (FIT). Dave says, “We are big energy users... reducing our reliance on energy by implementing a turbine and saving on future electricity costs seemed like a good idea.”

In 2011, Dave began a relationship with Earthmill, an authorized Endurance dealer in Yorkshire. Dave originally looked into different alternatives for wind turbines to suit his farm’s needs but decided on an Endurance E3120 machine. When asked why he decided on an Endurance, he stated “**the figures looked attractive from a return on investment point of view, we also wanted to introduce a wind turbine to our farm to add to the farm’s diversification.**” He goes on

to say, “Endurance has more history and we felt more confident in what the E3120 said it could do”. Earthmill handled all the paperwork required to get Dave’s turbine through the planning process, a process that Dave says went very smoothly indeed.

Dave’s E3120 wind turbine was installed on 16 October 2011 on a 36 metre tower, one of the first to be installed in the UK, and was officially commissioned on 17 October 2011.

The turbine generates income from the Ofgem’s Feed-in Tariff program which is backed by a 20 year contract with the UK government. The FIT rewards people like Dave who make a personal investment in expanding the country’s energy production from renewable sources such as wind. Through the FIT program, Dave’s total investment of £250,000 is calculated to be paid back within seven years based on the 20 year contract rate of 21p per kWh of electricity produced by his turbine. As of August 2013, the turbine has produced just over 250,000kWhs which is the energy equivalent of powering 77 homes or running 8,836 laptop computers for the year. Being green energy, it also provides a significant offset to CO2 emissions; 110,194kg to date or the equivalent of taking 33 cars off the road for a year. Dave uses all the kWh the turbine produces so he is happy to know that his farm is consuming what it is producing. **“Overall, I am quite happy with it, the turbine is fulfilling what it said it would do and the ROI is on target”** Dave reports.

One of the great technology features Dave enjoys using is the Endurance Remote Interface



Centre (ERIC) that lets him check his turbine’s live energy production online. In fact, Dave says he checks ERIC every morning at breakfast using his tablet. **“I like using ERIC, I like the instantaneous information the system provides especially in real time.”** In addition to viewing the turbine’s performance online, Dave says, “I like seeing it; I like seeing it spinning in the wind.”

Since installing his turbine in 2011,

there are now a few more E3120 turbines visible in and around the Pockthorpe Farm, **“There are now dozens of Endurance E3120’s in our area”** Dave describes. In fact, Dave himself is currently in the planning process for an Endurance X29 225 kW wind turbine. He plans to use the additional energy generated by the larger Endurance machine to continue managing his growing energy needs. Now that’s green energy in action!