



Keeping customers' utility bills down

United Utilities is one of the UK's biggest utilities companies. It operates across the North West of England, supplying three million people and 200,000 businesses in the counties of Cumbria, Cheshire, Greater Manchester, Lancashire and Merseyside with clean, clear water.

In 2007 United Utilities set out its first Carbon Mitigation Action Plan, which aimed to reduce carbon emissions and increase renewable energy production. Since then, United Utilities have produced 100GWh of clean, renewable electricity. As part of this multi-billion pound investment programme, an EWT DW54 wind turbine was commissioned to be installed in November 2015 at the Fazakerley Waste Water Treatment Works in Liverpool. With an installed capacity of 500kW, the turbine will be able to generate a significant amount of clean energy, which will help United Utilities meet its renewables target, lower the company's energy bills, and thereby ensure that customers' water bills are kept low.



EWT Fazakerley Case Study

In order to supply their customers with clean water, United Utilities' water treatment works at Fazakerley are required to operate 24 hours a day, seven days a week. This means that the works require a reliable and substantial supply of electricity – which is where the turbine makes the difference. The EWT turbine produces on average up to 1,250 MWh of electricity per annum, which is roughly equivalent to 15 per cent of the Fazakerley works' annual energy needs. The turbine will also be connected to the local grid network, but due to the constant, high demand of the water works it is expected that almost all the energy it produces will be used directly by United Utilities.

Not only will the turbine help United Utilities maintain a 24/7 service for their customers, it will also significantly lower energy costs and carbon emissions. More than 500 tonnes of CO₂ will be saved every year the turbine is in use (source: RenewableUK). As such, EWT's turbine will play an important part in realising United Utilities' goal of improving their all-round environmental performance. Ultimately, it is expected that by 2020 the company will be generating 200GWh of renewable energy.

Benefits to the Company and Local Community

- The EWT turbine will produce up to 1,250 MWh of electricity every year, which will be available for use directly by United Utilities. This amounts to approximately 15 per cent of the Fazakerley waste water treatment works' annual electricity needs.
- Once operational, the turbine is expected to save UU £105,000 on their yearly electricity bill. By keeping the company's bills low, the turbine will contribute to keeping their customers' bills low as well.
- Up to approximately 537 tonnes of CO₂ will be saved every year that the Fazakerley turbine is operational. Over a 25 year period, this would mean 13,425 fewer tonnes of CO₂ being released into the atmosphere.
- The turbine is a visible symbol of United Utilities' commitment to improving environmental performance and protecting the water supply of its customers against the predicted harmful effects of climate change.



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