



Powering the way to a more environmental aggregates industry

Buildings are responsible for more than 50% of all global CO₂ emissions and 35% of global energy consumption. Aggregate Industries are providing a leading example to others in the construction business, cutting down their own carbon footprint and investing in the production of low-embodied carbon materials to help others do the same. The company have also made significant changes across their operations to enhance their environmental performance.

Starting in June 2012, Aggregate Industries have been undertaking a truly comprehensive review of energy use across the organisation. Based on the principle that no saving is too small, this progressive energy programme is covering all bases, from converting to equipment which will automatically turn off when not in use, to electrification of whole sites.

Elsewhere, the company have transitioned from smaller scale carbon control to more proactive measures, such as introducing renewable power generation at their quarries and manufacturing operations. Beginning with an EWT 500kW wind turbine at Erith, London, Aggregate Industries are now rolling out their renewables programme across the business; the renewables programme even includes a commitment to buy-back exported electricity. The power generated on Aggregate Industries own sites contributes significantly to the reduction of carbon emissions from the company as a whole.



EWT Aggregate Industries Case Study



The Aggregate Industries' renewables programme is based on an identification of technologies appropriate to each relevant site; this could eventually include solar power, anaerobic digestion and hydro-power.

Their goal is to generate 25% of the electricity used at Aggregate Industries sites from their own, on-site renewable sources, placing their company at the forefront of renewables use in the construction industry by 2020.

Aggregate Industries is a large energy user. They use the electricity produced by their EWT wind turbine to power their factory works, saving on energy costs and reducing their carbon footprint.

Aggregate Industries have trail-blazed the introduction of sustainable working practices in their industry. As a major building materials producer, they are conscious not just of the social and environmental impacts of their work, but the good that they can do as a corporate citizen operating in communities across the UK and Northern Europe.

Benefits to the company:

- PPA earnings will be re-invested into the business and thereby produces substantial energy cost savings.
- The turbine generates an estimated 1314 MWh p/a (Source: Revised Planning Statement submitted to Bexley BC on 12 April 2012).
- Energy savings: Average energy consumption at the factory is approximately 713 MWh p/a. This means that there would be an estimated surplus of 601 MWh p/a, which would be sold and fed into the local grid.
- CO2 savings: Approximately 565 tonnes p/a (Source: Revised Planning Statement submitted to Bexley BC on 12 April 2012).
- In 2009 Aggregate Industries became the first company in their field to achieve the Carbon Trust standard across all of their UK operations.



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.

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