



## Disused colliery site rejuvenated by 100% community owned wind venture

Regeneration company Hayworth Estates specialises in the redevelopment of brownfield sites into low-carbon energy projects, transforming disused, wasted land into valued renewable energy ventures. Recent examples of Hayworth Estates' work can be found in South Yorkshire, where at the former Shafton Two Gates colliery site in Barnsley, two DW54-500kW turbines have been installed: one located at Duckmanton near Chesterfield, the other between Grimethorpe and Cudworth.

These turbines were developed by the Four Winds Energy Co-operative to bring tangible benefits to their local communities. Four Winds raised money to fund the development through a public share offer. First priority was given to those who live locally, with the offer later being extended more widely. Additional funds were sourced via a loan. The project gave local people an exciting opportunity to invest in – and enjoy the substantial benefits associated with – renewable energy generation. The project's principal appeal was to local residents and investors, who were enthused by the attractive rates of return associated with the progressive, environmentally friendly and community based initiative.



## EWT Former Colliery Sites Case Study



Energy produced by the EWT turbines at these previously derelict sites will be sold back to the National Grid through the existing connection from the mining site. The turbines, which are now operational, generate sufficient energy to power approximately 1,000 local homes.

The sale of surplus electricity provides an income allows for payments to be made into a community fund. The remaining surplus is distributed among the members of the energy co-operative.

The Shafton Two Gates project demonstrates Hayworth Estates' expertise at regenerating redundant land into valuable renewable energy initiatives in partnership with trusted partners like Four Winds Energy. Over the course of 2015, Hayworth Estates will be bringing forward a number of other low-carbon schemes across their landholdings as part of the company's ongoing commitment to renewable energy.

### Benefits to owner and the local community:

- It is estimated the turbine at Duckmanton alone will offset 589 tonnes of CO2 each year. In addition to this, the Shafton turbine will offset between 420 and 1010 tonnes of CO2 per annum (depending on whether the power had otherwise been generated by gas or coal fired power stations).
- The power output from the Duckmanton turbine is approximately 1,380 MWh per annum. The approximate figure for the Shafton turbine is 1,160 MWh per annum.
- Local community projects will receive payments from the co-operative to ensure they can proceed in this challenging economic environment.
- This community funding could equate to £777,000 in 21 years.
- The funding is achieved through a Feed in Tariff for every MWh of electricity generated by the turbines.



### 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

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