

## Site 13 – Daventry Country Park



The country park installation has been installed as a demonstration project for educational purposes for visitors to the park and for school children.

The site was offered by the local council to take part in the wind trials.

The prevailing wind has an uninterrupted flow across the lake before hitting the lake bank and the wind turbine

<b>NOABL wind speed estimate</b>	4.8ms <sup>-1</sup> at 10m
<b>Planning permission</b>	
<b>Turbine installation</b>	
<b>Full data available from</b>	28 <sup>th</sup> November 2007
<b>Mounting type</b>	Pole at gable end
<b>Turbine</b>	Windsave WS1000
<b>Inverter</b>	
<b>Anemometer</b>	NRG #40 calibrated
<b>Data logger</b>	Pace Scientific XR5
<b>Watt meter</b>	Iskraemeco ME162

Warwick Wind Trials

<b>Time Interval</b>	<b>Measured Average Wind Speed (ms<sup>-1</sup>)</b>	<b>Total Energy Exported (kWh)</b>	<b>Average Energy Exported per Day (Wh)</b>
28 <sup>th</sup> November 2007 to 23 <sup>rd</sup> September 2008	2.04	55.79	199
December 2007	2.51	7.40	239
January 2008	3.01	14.00	452
February 2008	2.15	4.40	378
March 2008	3.00	18.15	640
April 2008	2.26	3.58	119
May 2008	1.94	3.61	117
June 2008	1.23	0.63	21
July 2008	1.50	1.58	51
August 2008	1.37	0.94	30

Note that data is missing from 12<sup>th</sup> February to 3<sup>rd</sup> March 2008 but the turbine was switched on during this time. The average energy exported per day has been calculated for the days that data is available.