

## Site 10 – Daventry Civic Centre



The Civic Centre is in the centre of Daventry. The wind turbine is installed on the civic centre building at about 15 meters above ground level and 2 meters above the roof line of the building.

The anemometer is installed at hub height 3 meters to the left of the turbine.

A bat survey report has been completed with recommendation that the turbine be switched off at night from March to September. The concern is that the turbine could potentially be in the flight path of bats. This theory was neither proved nor disproved by the report and so the recommendation to switch the turbine off is just a cautionary measure.

<b>NOABL wind speed estimate</b>	5.4ms <sup>-1</sup> at 10m
<b>Planning permission</b>	24 <sup>th</sup> January 2007
<b>Turbine installation</b>	20 <sup>th</sup> March 2007
<b>Full data available from</b>	4 <sup>th</sup> December 2007
<b>Mounting type</b>	Pole at gable end
<b>Turbine</b>	Windsave WS1000
<b>Inverter</b>	
<b>Anemometer</b>	Schiltknecht Meteo, Type: f.555.1.18
<b>Data logger</b>	Novus LogBox DA
<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>
4 <sup>th</sup> December 2007 to 14 <sup>th</sup> October 2008	2.74	109.13	347
January 2008	3.82	28.50	919
February 2008	2.66	8.84	305
March 2008	3.66	29.14	940
April 2008	2.84	15.37	512
May 2008	2.50	12.08	390
June 2008	2.46	0	0
July 2008	2.39	0	0
August 2008	2.36	0	0
September 2008	1.79	0	0

Structural damage to the gable end of this building is suspected to have been caused by the wind turbine and it was removed on 27<sup>th</sup> May 2008. Wind speed data is still being collected from this site.

This turbine averaged 627Wh per day during the 174 days that the turbine was installed and working with energy output monitored.