

## Site 18 – Tannery Court



Tannery Court is a retirement home in the West Midlands. It looks a good site for an urban area. The turbine is mounted off the fourth floor and is raised 3 meters above the roof line. In total the turbine is 18 meters above ground level. The turbine has been mounted to the corner of the building attached to a stairwell.

The anemometer is mounted at 3 meters to the side of the wind turbine at hub height.

<b>NOABL wind speed estimate</b>	4.8ms <sup>-1</sup> at 10m
<b>Planning permission</b>	6 <sup>th</sup> March 2007
<b>Turbine installation</b>	22 <sup>nd</sup> August 2007
<b>Full data available from</b>	19 <sup>th</sup> February 2008
<b>Mounting type</b>	Pole mounted at edge of pitched roof
<b>Turbine</b>	Ampair 600 230
<b>Inverter</b>	Windy Boy WB700
<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>
19 <sup>th</sup> February to 20 <sup>th</sup> October 2008	3.58	3.52	46
March 2008	4.49	0	0
April 2008	3.68	0	0
May 2008	3.55	n/a	n/a
June 2008	3.62	n/a	n/a
July 2008	3.66	n/a	n/a
August 2008	4.11	n/a	n/a
September 2008	1.67	0.89	46

This turbine was switched off until 9<sup>th</sup> May 2008. New nose cone, blades and interconnect box with speed control fitted on 9<sup>th</sup> May 2008. Energy data was unavailable until 11<sup>th</sup> September due to a problem with the watt meter.