

## Site 15 – Misty Farm



Misty Farm is our test reference site for the urban wind trial. This site has been selected for its good rural location, close to the sea on top of a hill with very little obstructions to air flow.

This site will be used for contrast to the urban sites so we can make a comparison between a good rural site and the urban environment.

The turbine has been installed at 5 meters above ground level. The anemometer is located at the hub height of the wind turbine so we record an accurate wind speed and can compare this to the turbine output

<b>NOABL wind speed estimate</b>	6.3ms <sup>-1</sup> at 10m
<b>Planning permission</b>	
<b>Turbine installation</b>	
<b>Full data available from</b>	17 <sup>th</sup> November 2007
<b>Mounting type</b>	Freestanding pole – reference site
<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>
17 <sup>th</sup> November 2007 to 16 <sup>th</sup> October 2008	5.77	493.09	1553
December 2007	7.50	100.90	3225
January 2008	7.40	94.40	3045
February 2008	5.84	66.08	2279
March 2008	7.26	35.94	1161
April 2008	5.36	0	0
May 2008	4.45	4.08	132
June 2008	5.09	8.41	280
July 2008	5.40	51.44	1659
August 2008	5.61	71.77	2315
September 2008	4.45	43.06	1466

This turbine was switched off intermittently from 11<sup>th</sup> March until 6<sup>th</sup> July 2008.