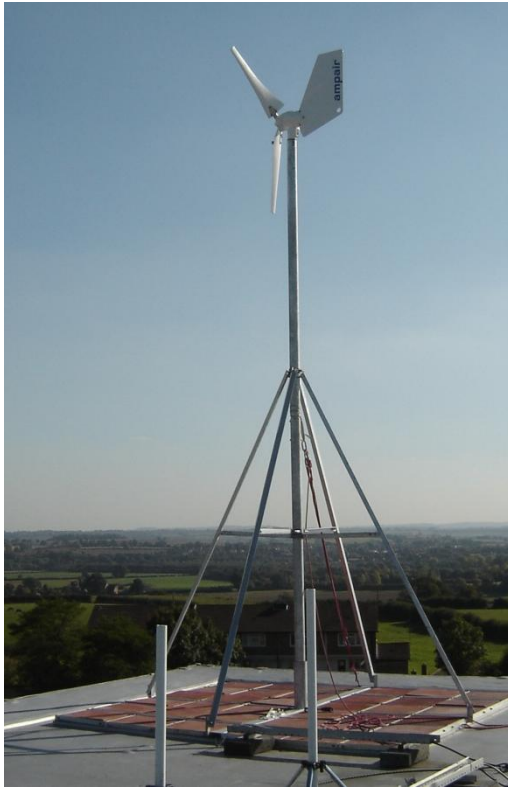


Site 8 – Ashton Court 1



Ashton Court is a seven story block of flats. Two wind turbines have been mounted on the south side of the roof. The height of the building is about 30meters above ground level and the turbines are 5meters above the roof. Ashton Court is the same design as Southorn Court and sits 200meters west of Southorn court.

The turbines have been mounted to non penetrating flat roof mount held in place with ballast on the frame work as can be seen in the photo graph.

The anemometers are installed on the building, one placed in-line with the turbines on the southern edge and one placed by the lift service room to look at the differences of wind flow over the building.

NOABL wind speed estimate	5.8ms ⁻¹ at 25m
Planning permission	7 th March 2007
Turbine installation	5 th October 2007
Full data available from	3 rd January 2008
Mounting type	Freestanding, non-penetrating on flat roof
Turbine	Ampair 600 230
Inverter	Windy Boy WB700
Anemometer	NRG #40 calibrated
Data logger	Pace Scientific XR5
Watt meter	Iskraemeco ME162

Warwick Wind Trials

Time Interval	Measured Average Wind Speed (ms⁻¹)	Total Energy Exported (kWh)	Average Energy Exported per Day (Wh)
3 rd January to 13 th October 2008	5.17	0	0
January 2008	6.68	0	0
February 2008	4.96	0	0
March 2008	7.46	0	0
April 2008	5.20	0	0
May 2008	5.19	0	0
June 2008	4.50	0	0
July 2008	4.34	0	0
August 2008	4.58	0	0
September 2008	3.74	0	0

This turbine is switched off due to concerns about the level of noise produced in high winds. A loose connection on the anemometer was identified and fixed on January 3rd 2008. Wind speed data is available from this date.