

Site 11 – Ashton Court 2



Ashton Court is a seven story block of flats. The turbine is installed on a flat roof using a non penetrating roof mount that has been approved by the local authority's structural engineers.

The turbine is mounted on top of a 5 meter pole held down by ballasting the base of the mount. The roof is protected from the base by polystyrene sheets. This turbine is grid connected and is feeding into the flats electricity system.

NOABL wind speed estimate	5.8ms ⁻¹ at 25m
Planning permission	7 th March 2007
Turbine installation	27 th September 2007
Full data available from	1 st October 2007
Mounting type	Freestanding, non-penetrating on flat roof
Turbine	Ampair 600 230
Inverter	Windy Boy WB700
Anemometer	Schiltknecht Meteo, Type: f.555.1.18
Data logger	Novus LogBox DA
Watt meter	Iskraemeco ME162

Time Interval	Measured Average Wind Speed (ms ⁻¹)	Total Energy Exported (kWh)	Average Energy Exported per Day (Wh)
1 st October 2007 to 4 th August 2008	4.25	34.75	124
October 2007	2.86	11.33	365
November 2007	4.13	5.93	198
December 2007	5.29	3.64	117
January 2008	6.65	0	0
February 2008	4.88	0	0
March 2008	6.18	0	0
April 2008	4.21	0.03	1
May 2008	n/a	n/a	n/a
June 2008	1.96	0	0
July 2008	2.67	9.71	313

This turbine has been switched off the majority of time due to concerns about the level of noise produced in high winds. It was switched on occasionally during October, November and December 2007 but only on days of predicted low wind speed.

Data is missing from 12th May to 9th June 2008 due to a battery failure on the data logger.

New nose cone, blades and interconnect box with speed control fitted on 18th July 2008. On this date it was also switched on. However it was switched off every night by an automatic timer switch in order to minimise potential noise disturbance.

The turbine was switched off permanently on 1st October 2008 due to a further noise complaint.