

Site 7 – Southorn Court 1



Southorn 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.

There are two turbines on Southorn Court. Both are mounted close to the south edge of the building. One of the anemometers installed on this building has been placed between the turbines on the south edge. The other has been placed further back to look at the difference of air flow over the building

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	30 th 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)
30 th October 2007 to 13 th October 2008	4.59	74.63	213
November 2007	4.03	4.93	164
December 2007	5.09	5.05	163
January 2008	6.26	0	0
February 2008	4.58	0	0
March 2008	5.83	0	0
April 2008	4.62	0	0
May 2008	4.36	0	0
June 2008	4.11	0.01	0
July 2008	3.86	18.70	603
August 2008	4.25	23.98	773
September 2008	3.56	19.33	645

This turbine was switched off from December 2007 to 2nd July 2008 due to concerns about noise levels in high winds. The turbine was switched on occasionally during November and December 2007 but only on days of predicted low wind speed.

A new nose cone, blades and interconnect box were fitted on 2nd July 2008. On this date the turbine was also switched on – but only during the daytime (it was routinely switched off at night by an automatic timer switch).

The turbine was switched off permanently on 1st December 2008 a noise complaint.