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Case study name Ampair 600 at Myres Hill wind turbine test centre



Commentary This is an experimental installation where the NaREC independent test laboratory monitored an Ampair 600 installed at the TUV-NEL Myres Hill test site. The Myres Hill test site is a very exposed area of the Scottish west coast. This unattended Ampair 600 has achieved 100% reliability and since the formal test concluded it has operated through windspeeds in excess of approx. 100mph (50m/s) with no intervention required. The turbine is installed on a rather unusual prototype lightweight hydraulic mast which is not ideal and does restrict turbine performance as well as increase turbine noise. This is unfortunate but was necessary because of the tight installation deadlines the project was operating to. The turbine and mast system was installed by 12Voltz who are a longstanding Ampair distributor.

Country	UK	Date of installation	April 2008
Owner details	NaREC, Eddy Ferguson House, Ridley Street, Blyth, NE24 3AG	Installed location	Myres Hill East Kilbride Scotland
Use	Scientific	Total installed cost;	£4,955 inc VAT ex grant
Manufacturer	Ampair	Turbine type	Ampair 600-230
Site windspeed (average annual)	7.9 m/s estimated per NOABL	Annual energy production	1100 kWh
Rated power of turbine	7.9 m/s actual measured	Windspeed at which rated	11.0 m/s
600 W		Installer contact details	105 Fleetwood Street, Preston, Lancashire, PR2 2PT t. 08712 500 555 f. 08712 500 554 e. help@12voltz.com w. www.12voltz.com
Installer	12Voltz	Output	Grid connection (230V, 50Hz)
Mounting	Prototype 10m monopole		