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PROJECT SUMMARY

Project Name: Wind turbines for Plymouth College of Further Education (PCFE)
Size of Installation: 2 x 6 kW wind turbines
Type of Installation: Building mounted wind turbines
Client: Plymouth College of Further Education
Equipment: Turbine – 2 x Proven WT6000
Inverter – 4 x SMA WB3000
Towers – 9m self-supporting tilt-down mast
Completion Date: October 2005
Predicted Generation: 12,000 kWh per year

Project Summary

Two wind turbines are mounted on the roof of the Innovations Centre building at Plymouth College of Further Education's (PCFE) Kings Road site in Devonport, Plymouth. The turbines operate in parallel with the local distribution network.



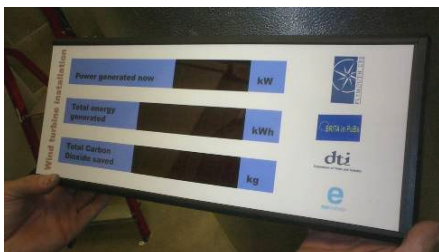
The two turbines are mounted on the roof of the college Innovations Centre building

Technical Information

Each wind turbine has a rated output of 6 kW and is connected to a controller/rectifier and two SMA Windy Boy WB3000 inverters. The rotor has a 5.6m diameter and includes three blades.

Social, Economic and Environmental Benefits

The turbines feed directly into the college's electric distribution network. Any power generated will be consumed by appliances on the site. A display is mounted in a prominent place in the building, showing students and other college users the current power output in kW as well as kWh produced and CO₂ emissions saved to date.



The visual display showing kW, kWh and CO₂ saved



Installation of one of the turbines



One of the four SMA inverters