

Wind Turbine Integration in the School Environment



The Redland Primary School, Nottinghamshire, UK

Nottinghamshire County Council have a policy to implement environmentally sound building designs in accordance with the aims and objectives of the Governments Planning Policy Statement 22, (PPS 22), and the councils pro-active Environment Policy. This is particularly important in school environments where the positive effects of sustainable designs are hugely beneficial; in the longer term the council is looking to develop an autonomous energy and resource efficient classroom. A number of schools have adopted green features such as, rainwater harvesting, solar electric PV energy, high efficiency boilers and lighting, solar water heating and small wind turbines. The tree-sized AT5-1 Iskra Wind turbine at Redland School is part of this programme, and has been very successful in reducing electricity bills from national grid suppliers and local carbon dioxide emissions, making the school more sustainable.

Quote from a letter from Mr Honey Redlands Headmaster " For us the wind turbine has been terrific. The children love to watch it spin and it has become a major talking point in the school and the local area. Everyone views it positively and there have been no disadvantages whatsoever. Our youngsters now have a developing understanding about what should be done to sustain and protect our environment and at the same time we are benefiting financially from the financial savings. If only we could have had 2!!"

Installation: June 2005

Purpose: the system was installed to generate green sustainable energy to provide electricity for Redlands School. This was part of a programme of educating pupils and the wider community of alternative forms of energy.

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Project Team: Nottinghamshire County Council, Bassetlaw District Council and Iskra Wind Turbines Limited.

General System Description: AT5-1 Iskra Wind turbine mounted on 12m free standing tower, separated from the playground by a timber fence and grid connected.

Finance: Nottinghamshire County Council, and Clear Skies.

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