

Built Environment Case Study

The Turbine Innovation Business Centre, Worksop, UK



Wind Turbine Integration in the Built Environment

The Turbine Innovation Business Centre is a business innovation centre designed to give innovative businesses the space to succeed. It supports new and existing businesses by providing excellent office and clean manufacturing units along with administrative and business support.

It is an excellent example of a sustainable low energy building incorporating a high efficiency boiler, a high level of insulation, natural ventilation, photovoltaic electricity generation, recyclable materials, rain water recycling and an Iskra Wind AT5-1 tree-sized wind turbine for electricity generation.

Paul Mallatratt, Manager of the Centre said;

“The AT5-1 has proven to be a very reliable piece of equipment, and a considerable talking point in the local area. We frequently entertain visitors who have come to see the turbine in action, and do not hesitate to sing its praises. We have not received any complaints from the local villagers with regard to any aspect of noise or visual impact, which were the main causes of concern prior to the turbine being installed, although some comments have been made expressing disappointment that we only have one turbine, and should have more!”

Installation:	June 2005
Purpose:	To support the Turbine’s philosophy of innovation and environmentally sound office space in terms of energy and sustainability.
Project Team:	Nottinghamshire County Council owners & operators, Bassetlaw District Council in partnership with the East Midlands Development Agency, Alliance SSP and the European Regional Development Fund. Iskra Wind Turbines Ltd supplier and installation contractor.
System Description:	Iskra Wind AT5-1 wind turbine mounted on free-standing 15m tower and grid connected.
Finance:	Nottinghamshire County Council and Clear Skies funding.

