

# Eco Business Centre - York



**Project:**  
Eco Business Centre  
**Location:**  
York  
**Client:**  
Helmsley Group  
**Consulting Engineer:**  
Alan Wood & Partners  
**Architect:**  
DSP Architects  
**Project Value:**  
£2.5 million



## Description:

The Eco Business Centre is a striking energy efficient building which will house a council facility for the promotion of small business in York.

The building incorporates some of the latest energy saving technologies with the structure designed to allow flexibility for future alterations to the internal layout. A steel frame with composite main beams and minimal internal columns supports a concrete first floor, with the roof constructed using Glu Lam beams supported on the steel frame.

Each column height within the frame varies from front to back to give the building its wedge profile. The structure is an integral part of the energy efficiency of the building, with the ground floor slab incorporating under floor heating pipes and the concrete first floor slab/masonry wall which provide thermal mass aiding effective heating and

cooling and eliminating the need for air conditioning.

Low energy technologies incorporated are:

- Ground source heating
- Wind turbines generating electricity.
- High levels of insulation reducing energy use.
- Rainwater harvesting for flushing toilets and for watering landscaped areas.
- Water saving devices to taps and cisterns.
- Controlled lighting systems reducing energy used.
- Permeable car parking areas linking to a sustainable drainage system.
- A green roof garden area for the users.
- Recycled building materials where appropriate.
- Recycled aluminium or sedum roof.

