This year, Oxford Brookes University has continued to follow its policy on Sustainable Construction and Refurbishment.

BREEAM is the world’s leading environmental assessment method and rating system for buildings. The John Henry Brookes Building was awarded a BREEAM Bespoke 2008 interim ‘Design Stage’ Excellent Rating for having:

- 600m² of solar panels
- A new bike shelter with capacity for over 200 bikes.
- Water recycling to manage the runoff of rainwater from the roof of the building, ensuring the flow of water into the sewers is managed and the ‘grey water’ is used for flushing

- A green roof to help manage the temperature of the building, produce oxygen, and provide a valuable habitat for insects and some avian wildlife
- A combined heat and power plant to reduce the building’s use of CO₂ by 16% and reducing the loss of energy by producing it on site
- Trigeneration: the power plant will also help cool the building using a reusable refrigerant
- A passive design philosophy to ensure natural daylight is maximised in the building wherever possible but solar gain will be kept to a minimum
- High-ceilinged rooms, which are ventilated with natural airflow and are located on the east side of the building so as not to be affected by hot afternoon sun

- A tunnel system, underneath the plaza, which cools outside air before it is pulled into the lecture theatre
- A sustainable urban drainage system (SUDS) to ensure that no net increase in the discharge from the site occurs as a result of the new development.

The University is now gathering evidence for the BREEAM Post Construction Review which will lead to the full BREEAM award.

**BUILDING ENERGY MANAGEMENT SYSTEM (BEMS)**

The temperature and the air quality of the John Henry Brookes Building will be managed using an automated system. The system will control the air entering and exiting the building and ensure that the temperature is comfortable for its users. It will also manage the natural ventilation system.

All waste timber from construction this year was given to Oxford Wood Recycling, way above the national average amount of 50%.

All existing buildings at the University over 500m² have Energy Certificates displayed so you can see how each building performs.