UNIVERSITY OF NOTTINGHAM

CAPITAL PROJECT INFORMATION

The University of Nottingham
UNITED KINGDOM · CHINA · MALAYSIA

Project Title: **Engineering & Sciences Learning Centre**

Project Description: **Teaching building with associated student support areas, social space and multi-use atrium**

Location: **University Park, Nottingham**

Key Users: **Students and staff from within the faculties of Engineering and Science**

BREEAM Rating: **Excellent** BREEAM Score: **71.13%**

Key innovative design features: **Close loop ground source heat pump to provide heating and cooling /district heating backup**
Rainwater Harvesting / ETFE Roof

Construction phase - reduction in environmental impacts:

Recording and monitoring site energy CO_2 consumption, water consumption and recycling waste materials. All timber is 80% responsibly and 100% legally sourced. Best practice for pollution management. Use of recycled aggregates in the construction of the building (Concrete and groundworks), and materials used have the environmental management system ISO 14001.

Contractor: **Mansell Contruction Services Ltd** Architect: **Hopkins Architects Partnership LLP**

Project Manager: **Gardiner & Theobald** Cost Consultant: **Gardiner & Theobald**

M&E Design: **Arup** CDM Coordiator: **WSP Safety**

BREEAM consultant: **Southfacing** Stuctural Engineer: **Arup**

Start on Site: **February 2010** Completion: **September 2011**

Gross Cost: **£10.1m** Gross cost per m2: **£2,844** Services cost per m2: **£344**

External Works cost per m2: **£237**

Gross Floor area: **3551m2** Teaching area: **1401m2** Office area: **146m2**

Circulation areas: **967m2** Laboratory area: **nil**

Total site area (hec): **0.15hec** Other areas: **597m2** Plant & storage area: **440m2**

Predicted Electricity Consumption (kWhm2): **55.1** Predicted Fossil Fuel Consumption (kWhm2): **34.6**

Predicted Water Use (m3/person/year): **2.8**

Of which, **32** % is provided by recycled water

Social &/or economically sustainable measure achieved:

The Atrium created a central heart space contributing to the academic and social environment of the Engineering & Science Faculties. The Learning Centre is within walking distance of the campus Health Centre, Libraries, Shops, Cash Points and Students Union. The Building has cycling storage and car park facilities nearby.