



University
of
St Andrews

Sustainable Design Aspects of the School of Medicine and the Sciences

- The new School of Medicine and the Sciences has been designed with the aim of bringing together students and collaborative research in a building with excellent sustainability credentials in line with the University's Sustainability policy
- The building's design and procurement will integrate sustainability and environment aspects using a BREEAM (BRE Environmental Assessment Method) template including the following key areas:
 - **Key Design Features**
 - Naturally ventilated where use and building regulations allow, including 'stack' ventilation to administration wing. Extensive glazing to maximise natural light
 - Use of Cooling and Combined Heat and Power and solar hot water heating to provide at least 18% of the total energy demand of the building. Building performance will achieve a 20% improvement over the target CO₂ emission rate (TER)
 - Use of water efficient fittings and appliances, including rainwater flush system from an integrated 50,000 litre tank
 - Reducing transport impact - travel planning for parking, public transport, cycle and footway upgrades
 - Materials - ensuring they are responsibly sourced; of low global warming potential (e.g. insulants); maximising their recycled content and their ability to be recycled and Green Guide A-rated specification where possible
 - Site soil arisings (5,000m³) retained within 1km to reduce carbon impact of removal and reused for landscaping purposes
 - Secure cycle storage and showers for staff and visitors
 - No additional car parking provided; users encouraged to use existing car parks or alternative transport
 - Heavily serviced laboratory areas designed to HEEPI (Higher Education Environmental Performance Improvement) standards
 - Limited size site among existing buildings chosen in preference to use of larger greenfield area adjacent to the Gateway Building
 - **Construction Impacts**
 - Reducing construction impacts through adherence to Considerate Constructors Scheme
 - Local labour used where economical to do so
 - Site waste management handled by local waste contractor and high level of recycling
 - Pollution prevention in line with both main contractor and University guidelines
 - **Operational aspects**
 - Full commissioning and testing programme to ensure energy efficiency targets met
 - Building will be subject to preventative maintenance regime to ensure efficient performance of all plant
 - Electrical sub-metering of all major energy uses within the building



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