

Document BEC69/08-09

Environmental Report

2008-09

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Executive Summary

Purpose of the Report

This document outlines the environmental strategy of Estates and Facilities. It summarises the work that has been undertaken in 2008/09 as well as the targets for 2009/10.

Key Points

- During 2008/09 the University has exceeded or met the majority of its targets. However, there remains challenges particularly in areas where fundamental behaviour change is required e.g. commuting by car or the overall reduction of waste
- Estates and Facilities have committed to high environmental specifications on a number of building projects and have developed an aspiration building specification for environmental performance
- In 2009/10 Estates and Facilities will develop a more targeted and co-ordinated approach to the management of water consumption and the biodiversity of the estate.

Recommendations

- To review and approve the 2009/10 environmental objectives and targets in Appendix A
- To review and approve the Estates and Facilities Environmental Policy in Appendix B

Waste Management

Targets Met

- ✓ Silver in EcoCampus environmental management system
- ✓ Minimum of 50% of controlled waste diverted from landfill
- ✓ Rocket Composter installed
- ✓ Asbestos management system
- ✓ System for the correct capture & disposal of WEEE waste set-up

Targets

The University is on the way to meeting its target of achieving 55% of controlled waste being diverted from landfill for 2008/9. The average to May 2009 is 58%, so with continued promotion of recycling the University is progressing towards achieving the 2009/10 target of 60% of waste being diverted from landfill.

The new rocket composter that will compost food waste will be operational shortly and a system to collect and compost the food waste from across the University has been developed.

There is now a dedicated person within Estates to update and oversee an ongoing asbestos management system. A significant amount of asbestos has been removed in 2008/09 as the estate is refurbished and remodelled.

Challenges for 2009/10

To achieve the 60% 2010 target, the Directorate intends to build on the success of previous communication and campaigns to continue to improve recycling levels. There is a particular problem around contamination of recycling and so some of the work will focus around better educating staff, students and visitors about what can be recycled.

The University is progressing towards its target of reducing 4% of the weight of controlled waste from a 2008/09 baseline. This is not a particularly challenging target compared to other universities and the University may want to review whether a more ambitious target would be more appropriate.

However, the University's progress against the target of overall waste reduction is not significant, so to achieve a more ambitious target would be extremely challenging. To improve performance against this we are looking to reduce paper usage by 10% in 2009/10 and create mechanism for the re-use of furniture and electrical equipment.

Key Risks

Contamination of recycling or a reduction in recycling levels

New battery legislation for institutions producing more than 1000kg annually: the University is required to collect these on masse

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Sustainable Construction

The University continues to demonstrate its commitment to sustainable construction through setting ambitious targets for BREEAM ratings on both new builds and refurbishments.

An aspirational building specification has been developed during 2008/09 which will apply to all refurbishment and new build projects. As the specification is very challenging, it is anticipated that majority of the projects will fall short of this target. However, the document will provide a benchmark and enable Estates to highlight and explain what can be achieved and the constraints preventing attainment of the standard.

In 2009/10, the Directorate is aiming to better promote its use of sustainable construction. A green tour, highlighting the environmental technologies and credentials of the main campus is being developed in collaboration with the Ecoversity staff.

Carbon, Water, Energy Management

From 2009/10, the monitoring and review of water management at the University will come under the Energy and Carbon Task Group. Targets for reducing water consumption have been developed which will lead to a greater focus on water management initiatives.

Energy and carbon management and consumption is reported separately.

Biodiversity Management

The Directorate continue to work on different initiatives to improve and monitor the biodiversity of the campus, including installing bat boxes and working with the Ecoversity team to deliver an annual bird survey. This supplements previous work that created a bio-diverse area for natural plant, animal and insect life near the rear of the JB Priestley Building, which has been nurtured and maintained during the last 12 months. Our grounds staff have continued to adopt natural choices suitable for the environment in their work.

In 2009/10 the Directorate will develop a plan to co-ordinate the currently ad-hoc work surrounding the biodiversity of the campus to improve the management and performance of the University in this area.

Ongoing Targets

The Emm Lane Project is aiming for an externally accredited BREEAM "Excellent" standard

The Sustainable Enterprise Centre is aiming for an externally accredited BREEAM "Outstanding" rating and will include a significant amount of demonstrable sustainable technology

The Horton A (School of Health) project extension and refurbishment will achieve a BREEAM "very good" standard

The University have set a standard of BREEAM "Outstanding" for the Student Sustainable Village project

Green Travel

A new green travel plan will be written in 2009/10. This will focus on the key areas of decreasing the use of cars, particularly lone car use, for commuting and the amount of air travel used for University business.

Travel related carbon is not currently included within the measurement of the carbon footprint of the University, but this could be taken into account to calculate the complete environmental impact of the University.

Whilst the University has already exceeded or is on target to meet its 2009/10 green travel targets there are a couple of areas where there are continued challenges. As walking has decreased from 32.9% in 2004 to 26.5%, it seems likely that the University will fall short of its 2009/10 target of 33.9% and lone car usage is at 33.1% against a 2009/10 target of 30.19%. Estates will aim to continue progressing towards these targets by developing incentives to car share through the car parking policy and charging, and by increasing the security of the estate. A significant challenge in meeting the target to increase walking is the change in the student demographics, to a greater number of uk students living at home and travelling into Bradford daily, from students that would've lived within walking distance of the campus.

Targets Exceeded

- ✓ Exceeded the target of a 10% increase in patronage of the A99 bus service
- ✓ Exceeded the targeted increase in public transport usage
- ✓ Exceeded the target of a 10% increase in the uptake of the METRO card

On Target Progress

- ✓ *Cycling Increased to 3.7% against a 2009/10 target of 3.8%*
- ✓ *100 users on the car share database against a 2009/10 target of 150*

Appendix A: 2009/10 Environmental Objectives and Targets

Objective 1 - Improve energy and water management thus reducing consumption

Groups Responsible – Estates and Facilities and Ecovercity Carbon Task Group

Targets for Academic Year 2009/10

- Reduce non-residential water consumption per m² GIA by 2.5% from 2007/8 baseline using Estates Management Statistics Data {*baseline = 0.535 m³ / m² GIA*}
- For academic year 09/10 continue purchasing at least 70% Climate Change Levy Exempt green electricity
- Reduce non-residential carbon emissions per m² GIA from electricity and fossil fuel consumption by 2.5% annually from 2007/8 – 2011/12 [10% over period] using 2007/8 data as baseline [this will go up to 40% if CHP is installed] {*baseline = 0.074 Tonnes Carbon / m² GIA*}

Objective 2 - Implement measures to reduce staff and student dependence on single occupancy car and plane travel

Groups Responsible – Travel Planner (Estates and Facilities) and Ecovercity Travel Task Group

Targets for Academic Year 2009/10

- Increase patronage of A99 bus service by 10% to at least 49973 by 2009/10 {*from 2004/5 baseline of 45430*}
- Increase public transport use of staff to and from work by 2.5% to 24.7% by 2009/10 {*from 2004/5 baseline of 22.2%*}
- Increase METRO card uptake by 10% to 77 by 2009 {*from 2004/5 baseline of 70*}
- Increase cycling by 1% to 3.8% by 2009 {*from 2004/5 baseline of 2.8%*}
- Increase walking by 1% to 33.9% by 2009 {*from 2004/5 baseline of 32.9%*}
- Decrease lone car use by 2% to 30.1% by 2009 {*from 2004/5 baseline of 32.1%*}
- Have 150 people on Car Sharing database by the end of 2009/10
- Limit business travel emissions through the sustainable travel framework and encourage video conferencing

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Objective 3 - Use the waste management hierarchy to seek to reduce waste from our activities and take action to re-use and recycle rather than dispose

Groups Responsible – Estates and Facilities and Ecoversity Waste Task Group

Targets for Academic Year 2009/10

- 60% of controlled waste to be diverted from landfill
- Reduction of 4% on all overall controlled waste weights against 2008/9 baseline figures *{Still in baseline year}*
- Reduction of paper procurement by 10% from 2008/9 baseline *{Still in baseline year}*
- Installation and initiation of University wide waste food collection and composting system
- Initiate electronics and furniture re-use on large scale

Appendix B: 2009/10 Estates and Facilities Environmental Policy

At the University of Bradford we recognise that to continue delivering excellence in our learning and teaching, research and knowledge transfer we need to ensure that our activities are conducted in an environmentally responsible manner. The University of Bradford educates around 12,000 students and employs around 2,500 staff. Its major environmental impacts include waste production, the use of fossil fuels and emissions caused by energy use and transportation. The department of Estates and Facilities is directly responsible for the buildings, estate and day to day running of the University of Bradford.

Through the Ecoversity programme the University of Bradford is attempting to bring both sustainability and environmental performance into the centre of its decision making processes. Ecoversity aims to do this in several ways; engaging staff and students in this agenda, building environmental sustainability into its curricula and providing a strong framework to ensure environmental sustainability is carefully considered at all levels

Taking a responsible approach to the environment is therefore one of the Department of Estates and Facilities core values and we aspire to achieve this by minimising our environmental impacts and continuously improving our environmental performance. We have conducted a baseline environmental review that will allow us to benchmark our performance against other organisations. Environmental objectives and targets shall be set annually by the Environment Manager and Ecoversity Action Group with the Assistance of the Ecoversity Task Groups with the Estates Senior Management Team acting as the Management Review Committee. These targets shall be quantitative and reviewed annually through the Ecoversity Action Group and Task Groups. Final responsibility for the environmental performance of the University shall be held by the Director of Estates and Facilities.

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The Department of Estates and Facilities will:

Environmental Management and Legislative Compliance

- Meet and where appropriate apply more stringent standards to ensure we comply with our environmental legislative requirements
- Work towards the accredited EcoCampus Environmental Management System as a formalised method of managing our environmental impacts

Reducing Our Environmental Impacts

- Improve energy and water management thus reducing consumption
- Implement measures to reduce staff and student dependence on single occupancy car and plane travel
- Use the waste management hierarchy to seek to reduce waste from our activities and take action to re-use and recycle rather than dispose
- Manage, refurbish and develop our estate and buildings in a manner that minimises adverse impact, enhances the environment and promotes the principles of sustainable development
- Manage and aim to reduce our consumption of those resources and raw materials which have a significant impact on the environment
- Prevent pollution wherever possible by seeking to minimise our emissions to air, land and water

Communication, Awareness Raising and Involvement

- Raise staff and student awareness of their responsibilities as global citizens and their roles in the stewardship of the environment through our staff training
- Work with and support the community and our partners to improve the local environment for all

Mr Clive Wilson

Director of Estates and Facilities

Date: 28th July 2009