Environmental Management Strategy

Implementation Plan

2010 – 2015
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<td>Annual review – first draft</td>
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1 Introduction

The Environmental Management Strategic Implementation Plan was first produced in January 2009. It has been updated to cover the period from 2010 – 2015, compatible with Edge Hill’s Vision 2015.

1.1 Drivers and context

Climate Change

Climate change is emerging as one of the greatest challenges for modern society. The United Nations’ Intergovernmental Panel on Climate Change (IPCC) has concluded that warming of the climate system is unequivocal and that human activities make a substantial contribution.

The Stern Report (2008) made it clear that a delay in stabilising climate change would be dangerous and costly. One of our most pressing challenges is how we facilitate a shift from fossil fuel based economies to alternative energy sources including clean and renewable technologies. It is estimated that the point of peak oil production will be reached within the next decade. Irrespective of the global warming impacts resulting from fossil fuel emissions it is clear that to ensure our economic security we cannot afford to continue to rely on a limitless supply of oil.

Locally, a series of ‘Mini-Stern’ reports have been published covering the North West and highlighting the case for local strategic leaders to take early action to respond to the opportunities posed by climate change. The report evidenced significant economic advantages, growth in jobs and skills and businesses through early action on carbon reduction.

The Policy Framework

International

The Kyoto Protocol is an international agreement which sets legally binding greenhouse gas emission reduction targets for 37 industrialised nations. The targets vary by country but the UK has committed to reduce greenhouse gas emissions by 8% by 2012 against 1990 levels. The Copenhagen Accord and subsequent revisions will outline the international targets beyond 2012.

The European Union (EU) “climate action and renewable package” adopted in 2009 requires EU member states to reduce greenhouse gas emissions by 20% by 2020. The package also outlines a requirement for 20% of energy to come from renewable sources. The UK target is set at 15% with 10% of fuels (non aviation) to be produced from renewable sources such as bio fuels.

National

In 2008 the Climate Change Act was introduced which lays out the statutory targets to reduce the net UK greenhouse gas emissions. This Act requires an ambitious 80% reduction in greenhouse gases by 2050 versus 1990 levels. An interim target for 2020 requires the UK to reduce its carbon emissions by 34% below 1990 levels. Compliance with these targets is mandatory and provides a foundation for additional regulations and market incentives to promote the adoption of green technologies and sustainable behaviours.
The Carbon Reduction Commitment (CRC) Energy Efficiency Scheme is the UK’s first mandatory carbon trading scheme. The scheme requires large organisations using more than 6,000,000 kWh/yr of half hourly metered electricity to reduce their consumption year on year. Qualifying organisations are required to buy carbon dioxide emission allowances equivalent to their total carbon footprint.

Edge Hill University is a fraction below the threshold for full participation in the initial phase of the emissions trading but will be required to make an annual disclosure on total energy use and is likely to be required to participate fully in the next phase.

Regional

Across our region there are a number of agencies working together to help make the North West more sustainable and to drive economic growth in a green economy.

The Lancashire Climate Change Strategy sets out the Lancashire Climate Change Partnership's long-term vision that Lancashire is “low carbon and well adapted by 2020”. The partnership consists of representatives from each of the 15 local authorities and from other key public, private, community and voluntary organisations.

Through our sustainability strategy for Edge Hill University we will support and contribute to the broad aims of the regional climate change action plan.

HEFCE Requirements

In 2005, the Higher Education Funding Council for England (HEFCE) responded to Government concerns by setting out a vision for how Universities could contribute to sustainable development. In 2009 they published a revised and updated strategic statement and action plan which recognises the higher education sector is England was required in the grant letter to implement a carbon reduction target of at least 80% by 2050 against 1990 levels in line with UK Government targets with an interim target of a 43% reduction by 2020.

From 2011, HEFCE capital allocations will be linked to carbon reduction requiring individual institutions to develop carbon reduction strategies, targets and associated carbon management plans.

1.2 Strategic Importance

Our vision is to be the university of choice for students and staff in the region.

The University's Strategic Plan is supported by five cross-cutting themes, one of which is Sustainability. Edge Hill is committed to being a socially responsible university; minimising our impact on the environment and having a positive impact in both the local and global communities we influence.

The aim of this Strategy is to outline the University’s commitment to managing the environmental impacts of our activities both in the immediate term and to facilitate our future growth.

This will be achieved through the development of an environmental management system which sets clear performance objectives and provides the framework for meeting these e.g. carbon reduction and conservation of natural resources through improved energy efficiency and the appropriate use of new technologies and practices.
1.3 Where are we now?

Over the last ten years the University has been subject to a period of significant growth both in terms of the development of the built environment and success in attracting ever larger student numbers.

Edge Hill 2020, and the development framework which underpins this, provides a vision of our sustained growth. It is, therefore, imperative that an environmental management system is implemented and established as an integral aspect of the University’s business and thereby meets our future challenges.

The Health, Safety & Environment Policy sets out our commitment and this strategy has been produced in order to support the implementation of the aims and objectives.

1.4 Getting Involved

This strategy is provided to focus upon the significant challenges faced by the University over the next several years and will influence the future growth of Edge Hill.

The effective implementation of strategy is dependent upon the involvement of all our staff, students and stakeholders. Consequently we welcome any comments you may have on this document.

You may comment via the following means:

Write to:
Julia Dickinson
Environmental & Safety Co-ordinator
Facilities Management
Edge Hill University, St. Helens Road,
Ormskirk, L39 4QP

Email:
julia.dickinson@edgehill.ac.uk

Website:
http://www.edgehill.ac.uk/sustainability
2 The University

2.1 Estate

<table>
<thead>
<tr>
<th>Properties</th>
<th>Type</th>
<th>Tenure</th>
<th>Size (GIA)</th>
</tr>
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<td>Ormskirk Campus</td>
<td>Operational &amp; Residential</td>
<td>Freehold</td>
<td>71,261</td>
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<td>Woodlands Campus</td>
<td>Operational</td>
<td>Leasehold</td>
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<td>Aintree Campus</td>
<td>Operational</td>
<td>Leasehold</td>
<td>290</td>
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All of the above properties will be covered by the targets within the University’s Environmental Management Strategy.

The University’s estate also includes the following properties that will be excluded from the scope:

- Wirral Education Centre, Merseyside
- Training and Development Centre, Shropshire

2.2 Staff and students

<table>
<thead>
<tr>
<th></th>
<th>2008/09(^1)</th>
<th>2009/10(^2)</th>
<th>2010/11(^3)</th>
<th>2011/12(^4)</th>
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</thead>
<tbody>
<tr>
<td>Full-time student headcount</td>
<td>7,543</td>
<td>9,039</td>
<td>9,284</td>
<td>10,219</td>
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<tr>
<td>Part-time student headcount</td>
<td>14,200</td>
<td>13,966</td>
<td>15,405</td>
<td>14,831</td>
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<tr>
<td>Total student headcount</td>
<td>21,743</td>
<td>23,005</td>
<td>24,689</td>
<td>25,050</td>
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<tr>
<td><strong>Total student headcount</strong></td>
<td><strong>24,430</strong></td>
<td><strong>25,319</strong></td>
<td><strong>27,329</strong></td>
<td><strong>26,370</strong></td>
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<tr>
<td>Part-time academic and all non-academic staff</td>
<td>1,169</td>
<td>1,177</td>
<td>1,186</td>
<td>1,298</td>
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<tr>
<td>Full-time academic staff</td>
<td>409</td>
<td>426</td>
<td>494</td>
<td>504</td>
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<tr>
<td>Atypical staff</td>
<td>1,709</td>
<td>1,889</td>
<td>1,435</td>
<td>1,589</td>
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<tr>
<td><strong>Total staff</strong></td>
<td><strong>3,287</strong></td>
<td><strong>3,492</strong></td>
<td><strong>3,115</strong></td>
<td><strong>3,391</strong></td>
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</tbody>
</table>

2.3 Environmental Aspects

The University’s main environmental aspects and impacts are:

- Carbon emissions through:
  - Energy and resource consumption e.g. electricity, gas and water.

\(^1\) Published Higher Education Statistics Agency (HESA) data 2008/09
\(^2\) Published Higher Education Statistics Agency (HESA) data 2009/10
\(^3\) HESES data 2010/11
\(^4\) HESES data 2011/12
- Transport emissions
- Emissions from waste disposal

- Disposal of waste to landfill
- Use of office equipment and use of consumables e.g. paper
- Construction and maintenance of buildings and environment
- Use of chemicals and solvents
- Discharge of effluent and air pollutants

3 Environmental Objectives and Targets

Objectives and targets have been set in each of the following areas:

1. Environmental Management System
2. Energy Management
3. Transport
4. Waste Management
5. Water
6. Community Involvement
7. Procurement
8. Construction & Refurbishment
9. Biodiversity
10. Emissions & Discharge

3.1 Monitoring and Review

This document will be reviewed and updated on an annual basis to reflect progress and any changes that take place.

The ongoing collection and collation of pertinent data to ensure the timely delivery of the strategy will be undertaken by the Sustainability Team. An annual report on progress will be produced and submitted in October of each year as part of the Institutional Health, Safety & Environmental Annual Report.

3.2 Communication

Many of the targets and objectives require working in partnership with other teams and a high degree of awareness of issues involved by the staff and student body. The Sustainability Team will manage and facilitate this communication in accordance with Appendix A.
4 Environmental Management Implementation Plan

4.1 Environmental Management System

**OBJECTIVE**
Implement an Environmental Management System (EMS) that will provide a mechanism to systematically manage the University’s environmental impacts, its legislative compliance obligations and deliver continuous improvement.

**TARGET**
To implement a fully operational EMS across the University by December 2015.

<table>
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<tr>
<th>Action</th>
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<tr>
<td>4.1.1</td>
<td>Compare and contrast the different EMS systems and their relevance to a University</td>
<td>Jan 2013</td>
<td>Mar 2013</td>
<td>Environmental Coordinator</td>
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<td>4.1.2</td>
<td>Develop a business case for the implementation of an EMS</td>
<td>Mar 2013</td>
<td>Jun 2013</td>
<td>Environmental Coordinator</td>
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**Notes**
Develop a business case for the implementation of an Environmental Management System to incorporate the following:
- Analysis of current status (review of environmental management strategy)
- Preparatory steps (gap analysis)
- Identification of resources (audit, training and development, roll out of usage of aspects, impact assessment, cost benefit analysis)
- Indicative timescale (draft report by end of Q1 2012/12, with EMS fully in place by 2014, if feasible).
### 4.2 Energy Management

**OBJECTIVE**
To reduce the environmental impact and costs arising from energy use in buildings through the better management of resources, as well as meeting the requirements of legislation.

**TARGET**
Reduce our carbon emissions from energy use by 6% by 2015 from a 2008/09 baseline.
Generate 10% of total energy use on-site from Low and Zero-Carbon (LZC) technologies by 2015.

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<tr>
<td><strong>4.2.1</strong> Use submetering to effectively monitor and manage energy usage on campus</td>
<td>Sep 2012</td>
<td>Monthly</td>
<td>Energy Manager</td>
<td>Ongoing</td>
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<td><strong>4.2.2</strong> Expand the effective use of building management systems (BMS) across the University’s estates</td>
<td>Sep 2012</td>
<td>Mar 2013</td>
<td>Energy Manager</td>
<td></td>
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<td><strong>4.2.3</strong> Invest in low and no carbon energy-saving measures</td>
<td>Feb 2013</td>
<td>Feb 2014</td>
<td>Energy Manager</td>
<td></td>
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<tr>
<td><strong>4.2.4</strong> Identify opportunities for onsite renewable energy generation in construction and refurbishment projects</td>
<td>Sep 2010</td>
<td>Aug 2015</td>
<td>Capital Projects</td>
<td>Ongoing</td>
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<td><strong>4.2.5</strong> Major switch off campaigns</td>
<td>Jan 2011</td>
<td>Jan 2012</td>
<td>Energy Manager</td>
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</table>
Notes
A comprehensive Carbon Management Plan has been developed in partnership with the Carbon Trust to cover 2010-15 and may be accessed by visiting edgehill.ac.uk/about/policies.

4.2.1 A comprehensive sub-metering programme was installed in Jan 2012 and the monitoring and measuring of energy usage has commenced to identify specific areas of wastage.

4.2.2 The current building management system allows automated operation of twenty buildings within the campus to maximise the running efficiency within these areas. Information will be monitored more closely, formal procedures will be put in place and individuals will be required to take ownership of the system to ensure more effective management and monitoring.

4.2.3 £300k of funding was secured from the Revolving Green Fund 2 to undertake a number of carbon reduction projects detailed within the Carbon Management Plan. All projects were successfully completed by January 2013. A further £371k worth of projects has been identified and an application submitted for the RGF round 3 – results to be published in May 2013.

4.2.4 All new construction projects to consider renewable energy generation. The campus already includes: photovoltaics; solar thermal collectors; ground source heat pumps; Combined Heat and Power (CHP); and a building that is entirely heated by recovering waste heat from IT servers and the data centre and also exports heat to two other buildings. This project received a ‘highly commended’ at the Green Gown Awards 2011.

4.2.5 Develop and implement Switch Off campaigns. A staff sustainability champion network has been set up and is helping to initiate change on the ground. A residential student ‘Green League’ was trialled in 2012/13 and will be adapted for the year 2013/14.
**OBJECTIVE**
To help people travel to work and study minimising pollution, congestion and the overall environmental impact that will help the institution grow in a sustainable way.

**TARGET**
Reduce the percentage of single occupancy car journeys made to the University by staff and students by 2012 from 70% to 55% and 37% to 20% respectively from a 2008 baseline.

To ensure 45% of all journeys made by staff to work and 80% of all journeys made by students to study are made by sustainable modes of transport.

Reduce car and aviation business mileage by 5% by 2015 from a 2008/09 baseline.

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<td>Environmental Coordinator</td>
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<td>4.3.2</td>
<td>Sep 2012</td>
<td>Nov 2012</td>
<td>Environmental Coordinator</td>
<td>Complete</td>
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<td>4.3.3</td>
<td>Dec 2012</td>
<td>Mar 2013</td>
<td>Environmental Coordinator</td>
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<td>4.3.4</td>
<td>Jan 2013</td>
<td>Monthly</td>
<td>Finance</td>
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Notes

4.3.1 See Travel Plan for a detailed list of actions.

4.3.2 A staff and student travel survey was conducted on campus in Oct 2012 which is being used to help inform the development of the new travel plan and enable us to estimate emissions from commuting.

4.3.3 A full review of the travel plan is underway in order to assess the effectiveness of the previous plan, revise targets and highlight new initiatives to cover 2013-2017. New targets will be calculated and reported shortly.

4.3.4 Finance have updated procedures in order to facilitate the collection of business travel data that will enable carbon emissions to be calculated from car, bus, train, air and taxi travel. This will enable us to develop a baseline figure for business travel.
## 4.4 Waste Management

### OBJECTIVE
To significantly reduce our contribution to landfill through reducing volumes of waste generated by our activities and increasing reuse, recycling and resource recovery; to manage residual waste in accordance with best practice; and to ensure that waste is considered a resource by staff and students.

### TARGET
To cut waste to landfill to 50% from a 2008/09 baseline by 2015.

To reduce carbon emissions from waste management by 40% from a 2008/09 baseline by 2015.

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<td>Nov 2013</td>
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<td>Ongoing</td>
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<td>4.4.2</td>
<td>Sep 2012</td>
<td>Monthly</td>
<td>FM Housekeeping</td>
<td></td>
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<tr>
<td>4.4.3</td>
<td>Sep 2012</td>
<td></td>
<td>FM Housekeeping</td>
<td>Complete</td>
</tr>
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<td>4.4.4</td>
<td>Mar 2013</td>
<td>Jun 2013</td>
<td>Environmental Coordinator, FM Housekeeping, Student’s Union</td>
<td></td>
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<td>4.4.5</td>
<td>Sep 2012</td>
<td>Aug 2013</td>
<td>FM Housekeeping, Environmental Coordinator</td>
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</table>
Notes

4.4.1 The Waste Management Strategy identifies the new approach to waste management on campus; the three-bin system with waste separated into three streams: mixed paper and card; co mingled dry recyclables; and general waste. Viridor have provided the external bins to support this process and now we are updating the internal infrastructure to support segregation in each building on campus. Building users are being engaged and a communications strategy is supporting the physical improvements.

4.4.2 More robust waste and recycling data is now being provided by Viridor. Housekeeping are continuing to work with other waste disposal contractors to ensure methods are in place to capture data so we may use it to inform further waste reduction activities.

4.4.3 A university-wide Waste Management Group has been set up and meets every 2 months.

4.4.4 A Student Reuse Scheme has been held at the end of the summer term since 2011. This has been established as an annual event and work is underway for 2013 [http://www.edgehill.ac.uk/sustainability/whatson/page/halls](http://www.edgehill.ac.uk/sustainability/whatson/page/halls).

4.4.5 As the roll out of the new waste management system continues roadshows, presentations and leaflets have been distributed in a targeted manner. A residential student ‘Green League’ has been trialled during 2012/13 which includes the ability for halls to win points based on their recycling. This will be evaluated and adapted for 2013/14 [http://www.facebook.com/EHUGreenLeague](http://www.facebook.com/EHUGreenLeague).
## 4.5 Water

### OBJECTIVE
To reduce the environmental impact and costs arising from water use through the better management of resources.

### TARGET
To reduce water consumption by 5% from a 2008/09 baseline by 2015.

<table>
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<tr>
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<td>Energy Manager</td>
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<td>4.5.2</td>
<td>Jan 2013</td>
<td>Jul 2013</td>
<td>Grounds Manager</td>
<td></td>
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<tr>
<td>4.5.3</td>
<td>Sep 2012</td>
<td>Aug 2013</td>
<td>Energy Manager</td>
<td></td>
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</table>

### Notes

4.5.1 Groundwork has completed a water audit of the site. Suggested actions will be analysed in due course and implemented as appropriate.

4.5.2 An investigation into the use of grey water and/or rainwater will be conducted by the Grounds Manager to identify any possible uses including irrigation and watering. A water butt has been purchased in order to harvest rain water from The Laurels which will be used to hose down grounds vehicles and/or irrigate areas on campus, such as the Rose Garden.

4.5.3 Identify major consumers of water on campus and focus any water saving campaigns on these user groups / areas. For example, World Water Day 2012 was celebrated on campus.
4.6 Community Involvement

**OBJECTIVE**
To encourage and support staff, students and the wider community to make sustainable lifestyle choices; and to embed ‘Education for Sustainable Development’ within the curriculum.

**TARGET**
- Students’ Union achieve Gold standard in the Sound Impact Awards by 2015.
- To ensure every department and faculty have a sustainability champion by 2012.
- To embed ESD within the curriculum by 2015.

<table>
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<tr>
<th>Action</th>
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<th>Due / Review Date</th>
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<td>Mar 2011</td>
<td>Sep 2011</td>
<td>E Coordinator</td>
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<td></td>
<td></td>
<td></td>
<td>Energy Manager</td>
<td></td>
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<td>4.6.2</td>
<td>Sept 2012</td>
<td>Aug 2013</td>
<td>E Coordinator</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Students’ Union</td>
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<td>4.6.3</td>
<td>Sept 2012</td>
<td>Jan 2014</td>
<td>E Coordinator</td>
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<td>4.6.4</td>
<td>Sep 2012</td>
<td>May 2013</td>
<td>E Coordinator</td>
<td></td>
</tr>
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<td>4.6.5</td>
<td>Oct 2012</td>
<td>May 2013</td>
<td>Students’ Union</td>
<td></td>
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<tr>
<td>4.6.6</td>
<td>Sep 2012</td>
<td>May 2013</td>
<td>E Coordinator</td>
<td></td>
</tr>
<tr>
<td>4.6.7</td>
<td>Sep 2012</td>
<td>Aug 2013</td>
<td>E Coordinator</td>
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</table>
4.6.1 Staff sustainability champions have been recruited from all departments and faculties to help implement actions and encourage staff to live more sustainably. A number of networking meetings have been arranged and a visit to a Mechanical and Biological Treatment plant completed to see what happens to our waste. A points scheme has also been developed and winners will be announced in May 2013.

4.6.2 Awareness-raising campaigns will continue to be developed and implemented throughout the year in partnership with relevant groups.

4.6.3 Staff inductions now include a presentation from the Environmental Coordinator.

4.6.4 The Students’ Union was successful in receiving funding from the NUS Student Eats campaign. Work is underway to convert 57 St Helens Road into a growing area including raised beds and a greenhouse.

4.6.5 The Students’ Union achieved the Green Impact Gold Award in 2012 and has recently submitted their application for 2013. Results to be announced in May 2013.

4.6.6 Work is being undertaken with first year Media students who are designing a range of campaigns to raise awareness around the residential student pilot project, the Green League http://www.edgehillsu.org.uk/getinvolved/green/

4.6.7 Education for Sustainable Development (ESD) is about embedding SD in the curriculum, addressing it as part of learning across a broad range of curriculum areas. In order to begin to raise the issue at Edge Hill we would like to: Stimulate discussion with academics and establish what stage Edge Hill is at and the conditions we face; Establish a ESD working group; Develop an action plan for embedding SD including policy development, training etc.
### 4.7 Procurement

**OBJECTIVE**
To carry out our purchasing activities in an environmentally responsible and sustainable manner.

**TARGET**
To implement the government’s ‘Flexible Framework for Sustainable Procurement’ to level 3 by 2015.
To achieve Fairtrade University status by 2011.
Source at least 30% of ingredients from local suppliers by 2015.

<table>
<thead>
<tr>
<th>Action</th>
<th>Start Date</th>
<th>Due / Review Date</th>
<th>Responsibility</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.7.1</td>
<td>Sep 2010</td>
<td>Sep 2014</td>
<td>Environmental Coordinator</td>
<td></td>
</tr>
<tr>
<td>4.7.2</td>
<td>Jan 2013</td>
<td>Aug 2013</td>
<td>FM Catering Services</td>
<td></td>
</tr>
<tr>
<td>4.7.3</td>
<td>Sep 2012</td>
<td>Jan 2013</td>
<td>VFM Committee</td>
<td>Complete</td>
</tr>
<tr>
<td>4.7.4</td>
<td>Jan 2013</td>
<td>Jan 2014</td>
<td>VFM Committee</td>
<td></td>
</tr>
<tr>
<td>4.7.5</td>
<td>Oct 2012</td>
<td>Apr 2013</td>
<td>Catering Procurement Officer</td>
<td>In progress</td>
</tr>
</tbody>
</table>
Notes

4.7.1 The University achieved Fairtrade status in September 2011 and it was renewed again in December 2012. The University will continue to implement the Fairtrade policy and the five key criteria set out by the Fairtrade Foundation. The next date for renewal is December 2014.

4.7.2 FM Catering Services have met with the Soil Association team to discuss the Catering Mark award scheme and how best to take it forward. Catering will develop an action plan to help meet the bronze award criteria. This fits with the sustainable catering policy first produced in March 2012.

4.7.3 A Sustainable Procurement Policy has been developed and ratified by the Universities Value for Money Committee, which integrates sustainable procurement best practice into University purchasing activities. The University will use the Government’s Sustainable Procurement Flexible Framework as the basis for moving this agenda forward and an action plan will be created to support achievement of Levels 1-3 on the Framework. The University will also adopt the principles of the Government Buying Standards when developing a sustainable procurement framework which sets minimum specifications covering 10 priority product groups.

4.7.4 An action plan setting out how we intend to achieve level 3 of the Government’s Sustainable Procurement Flexible Framework has been developed and will be implemented accordingly. A number of resources already exist and will be utilised including the Sustainable Procurement Centre of Excellence.

4.7.5 The Catering Procurement Officer has begun to investigate sourcing local and seasonal ingredients where possible in line with the sustainable catering policy. All milk now comes from within a 20 mile radius of the University.
### 4.8 Construction & Refurbishment

**OBJECTIVE**
To provide fit for purpose buildings which actively support energy, water, waste, biodiversity, transport, emissions and discharges and sustainable procurement targets.

**TARGET**
To aspire to achieve BREEAM ‘outstanding’ for all new buildings.
To recycle at least 80% of all construction waste.

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<tr>
<td>4.8.1</td>
<td>Sep 2010</td>
<td>Aug 2012</td>
<td>Capital Projects</td>
<td>Complete</td>
</tr>
<tr>
<td>Ensure the ‘Hub’ project is designed to BREEAM ‘outstanding’ where possible</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>4.8.2</td>
<td>Aug 2012</td>
<td>Jan 2013</td>
<td>Capital Projects</td>
<td>Complete</td>
</tr>
<tr>
<td>Ensure that the new residential accommodation and sports centre developments are designed to BREEAM ‘outstanding’ where possible</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>4.8.3</td>
<td>Jan 2013</td>
<td>Sep 2015</td>
<td>Capital Projects</td>
<td></td>
</tr>
<tr>
<td>Ensure the new ‘Creative Edge’ building and 144 bed student accommodation are designed to BREEAM ‘outstanding’ where possible</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>4.8.4</td>
<td>Sep 2011</td>
<td>Jan 2015</td>
<td>Capital Projects</td>
<td></td>
</tr>
<tr>
<td>Develop comprehensive SWMP’s for all construction projects over £300,000</td>
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</tbody>
</table>
Notes

4.8.1 The Hub was opened in September 2011 and in keeping with Edge Hill’s proven commitment to sustainable development; it is an energy-efficient building including eco-friendly features such as recycled heat from refrigeration units, solar-powered hot water, LED lighting and high levels of insulation.

A number of recent awards demonstrate Edge Hill’s commitment to low carbon buildings, including:

- Royal Institute of Chartered Surveyors’ (RICS) North West Award for Sustainability 2009
- West Lancashire District Council (WLDC) Design Awards Green Eco Category 2009
- Environment Agency’s Environmental Pioneer Awards 2010 Performance and Carbon Emissions Reduction Category
- Highly Commended at the Green Gown Awards for Sustainable Construction 2011

4.8.2 Chancellor’s Court, residential accommodation comprising 384 en-suite student rooms, was completed ready for students to move in during September 2012. Design features include solar thermal systems as well as a highly insulated envelope built to passivhaus standards with heat recovery in ventilation. A CHP unit provides heating and hot water.

4.8.3 Planning permission has recently been granted to cover the next phases of the expansion of the University, to include 144 residential bedrooms and a new Creative Media building. Sustainability will be incorporated and buildings will be designed to BREEAM ‘outstanding’ where possible.

4.8.4 Continue to use the BRE SMARTWaste Tool to manage SWMP’s and measure waste generated.
### 4.9 Biodiversity

**OBJECTIVE**
To protect and increase current levels of biodiversity on campus.

**TARGET**
To develop a Biodiversity Action Plan (BAP) for the site by 2013.
Identify opportunities for habitat conservation and creation and enhancement by 2013.
Undertake at least one applied biodiversity research project on campus by 2015.

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<tr>
<th>Action</th>
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<th>Due / Review Date</th>
<th>Responsibility</th>
<th>Status</th>
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</thead>
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<tr>
<td><strong>4.9.1</strong> Investigate the feasibility of developing a BAP in collaboration with the academic and student community</td>
<td>Sep 2012</td>
<td>Aug 2013</td>
<td>Grounds Manager</td>
<td></td>
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<tr>
<td><strong>4.9.2</strong> Conduct a new Extended Phase 1 Habitat Survey</td>
<td>Mar 2013</td>
<td>Apr 2013</td>
<td>Grounds Manager &amp; Department of Natural, Geographical and Applied Sciences (NGAS)</td>
<td></td>
</tr>
<tr>
<td><strong>4.9.3</strong> Conservation and enhancement of priority habitats and species</td>
<td>Sep 2012</td>
<td>Sep 2013</td>
<td>FM Property Services</td>
<td></td>
</tr>
<tr>
<td><strong>4.9.4</strong> Increase wildlife-friendly landscape planting</td>
<td>Mar 2012</td>
<td>Aug 2013</td>
<td>FM Property Services</td>
<td></td>
</tr>
<tr>
<td><strong>4.9.5</strong> Applied biodiversity research</td>
<td>Sep 2012</td>
<td>Aug 2013</td>
<td>NGAS</td>
<td></td>
</tr>
</tbody>
</table>
4.9.1 The Grounds Manager will be leading the development of the biodiversity action plan for the campus. Working with master's students from NGAS, research will be conducted and they will present findings, recommendation and plan of action.

4.9.2 An Extended Phase 1 Habitat Survey of the university campus was conducted in May 2007 and more recently in June 2009. For planning purposes, ecological survey data begins to lose credibility when older than two years and risks being considered invalid. Hence, a new Extended Phase 1 Habitat Survey covering the present application area and immediate surroundings should be undertaken in accordance with best practice methodology (JNCC 2003). Such surveys can be conducted at any time of the year, though ideally during May-September. Grounds Manager has been in discussion with NGAS and they will use Masters students to carry out a further survey during 2013.

4.9.3 The FM Property Services Grounds Team operates a schedule of planned maintenance across the campus. A detailed review of the schedule will take place and identify how to conserve and enhance priority areas including the ponds and hedgerows on campus. It has also been identified that a number of Bat Roost Boxes and House Sparrow Terraces should be placed on all new buildings on campus.

4.9.4 The planting strategy will be reviewed to ensure that shrubs and plants (native or ornamental) of recognised wildlife value should be used in landscape planting schemes.

4.9.5 To help ensure that the biodiversity value of the site is maximised and maintained applied biodiversity research projects could arise, for example with regard to the creation of species-rich neutral grassland on former agricultural land. Such opportunities will be explored with ecology staff and students from NGAS.
**4.10 Emissions and Discharges**

**OBJECTIVE**
To monitor discharges and emissions to air, land, and water to ensure effective controls are in place to reduce emissions and manage the risk of pollution.

**TARGET**
Ensure 100% compliance with all legislation relating to emissions to air, water and land.
To reduce carbon emissions by 6% by 2015 from a 2008/09 baseline.
Ensure all new fleet vehicles meet with UK Vehicle Excise Duty Band ‘A’ or ‘B’ i.e. CO$_2$ emissions <120 g/km

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<tr>
<th>Action</th>
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<th>Due / Review Date</th>
<th>Responsibility</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.10.1 Complete annual emissions testing on all campus boilers</td>
<td>Sep 2010</td>
<td>Annually</td>
<td>FM Property Services</td>
<td></td>
</tr>
<tr>
<td>4.10.2 Implement a leakage control programme of all refrigeration and air conditioning units</td>
<td>Sep 2010</td>
<td>Annually</td>
<td>FM Property Services</td>
<td></td>
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<tr>
<td>4.10.3 Review hazardous waste disposal procedures and training</td>
<td>Sep 2011</td>
<td>Sep 2012</td>
<td>FM Housekeeping</td>
<td>Complete</td>
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<tr>
<td>4.10.4 Review emissions to water</td>
<td>Sep 2012</td>
<td>Jan 2013</td>
<td>Energy Manager</td>
<td></td>
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<tr>
<td>4.10.5 Measure and report Scope 1, 2 and 3 carbon emissions on an annual basis</td>
<td>Sep 2010</td>
<td>Annually</td>
<td>Energy Manager Environment Coordinator</td>
<td></td>
</tr>
</tbody>
</table>
Notes

4.10.1 We release emissions to air, primarily from the boilers which are found in most of our buildings. All boilers undergo an annual service and maintenance check, where the emissions are tested to ensure the satisfactory evacuation of products of combustion and that they do not exceed specified limits.

4.10.2 Implement a leakage control programme through our preventative planned maintenance programme e.g. regular servicing of all refrigeration and air conditioning equipment containing ozone depleting substances in compliance with applicable legislation.

4.10.3 A number of hazardous chemicals are used by the Faculty of Health, Faculty of Arts and Sciences and by the Facilities Management Department which must be disposed of in accordance with the Hazardous Waste Regulations. Housekeeping Manager has reviewed and updated the hazardous waste disposal procedures and is in the process of providing refresher training for staff to prevent accidental releases to air, land or water. Each Faculty assesses the risks involved with handling hazardous materials and puts in place suitable measures to prevent accidental releases, which includes training of students.

4.10.4 An assessment was carried out with United Utilities to evaluate Edge Hill’s emissions to water and any control measures required. United Utilities have confirmed that, due to the nature of our activities, we do not require a Trade Effluent Discharge Consent and they are happy with our current arrangements (see Appendix B).

4.10.5 The Carbon Management Plan establishes a 2008/09 baseline for Scope 1, 2 and 3 carbon emissions. Data will be collated on a yearly basis so we can effectively monitor our impact.

4.10.6 A full Fleet Management Review is underway and includes the environmental considerations that should be made to reduce our emissions and discharges from vehicles. This includes guidance on vehicle fuel efficiency (UK Vehicle Excise Duty Band ‘A’ or ‘B’ i.e. CO2 emissions <120 g/km). The new Edge Link bus has a Euro5 engine and is fitted with a GPS technology called Green Road which can help identify inefficient driving.
5 Appendices

Appendix A – Lines of Communication
Appendix B – United Utilities Email

From: "Preston, Susan" <susan.preston@uuplc.co.uk>
To: <pamela.brandwood@edgehill.ac.uk>
Date: 20/09/2012 14:40
Subject: RE: Emissions to water

Hello Pamela

This is to confirm the following:

The content of discharge from Edge Hill University is classified as domestic with no requirement for a 'trade waste' classification.

I hope this clarifies the situation. I apologise for my error with the e-mail.

If you have any other queries about Trade Effluent, please contact me direct.

Susan Preston - RCTE West Lancs & Sefton
Merseyside North Trade Effluent Team
Fazakerley WwTW
Tel: 01925 5537779
Mob: 07802 902414
E-Mail: susan.preston@uuplc.co.uk