

Senior Staff Group



Environmental Sustainability Update

Jamie Pearson, Sustainability / Environmental Advisor

Thursday 1 October 2009



Sustainability Office

- Energy and Utilities Manager
- Sustainability / Environmental Advisor
- PA to Sustainability Office
- Full complement of staff from September 2008
- Sit within Facilities Services

- Other key members of staff also influence environmental progress structurally

- Environmental Sustainability Advisory Group (ESAG). Chaired by Professor Robin Mackenzie, Vice Principal, Research and Knowledge Transfer. The group consists of academic and support staff, from across the University, Napier Students' Association and external organisations





Core To The Sustainability Office

- Environmental Sustainability Policy
- Environmental Sustainability Plan
(both covering the main areas of):
 - General Actions
 - Biodiversity
 - Energy Management
 - Procurement and Building Maintenance
 - Transport
 - Waste
 - Water





Carbon Management Plan

- First in-depth study into environmental impact of the University. Many pockets of information gathered beforehand but not collated
- Completed March 2009
- 25% reduction by 2013 (2006/07 baseline)
- 11,116 tonnes Carbon Dioxide emitted (06/07):
 - Energy 86.95%
 - Travel 10.44%
 - Waste 2.41%
 - Water 0.20%





Carbon Reduction

Carbon Trust Standard

- Subsidiary of Carbon Trust
- Independently verified
- Early Action Metric for Carbon Reduction Commitment
- We expect to achieve this in December 2009



Carbon Reduction Commitment

- Carbon reduction and efficiency scheme
- Controlled by Government
- Vast financial gains / penalties
- Will be launched in April 2010



Biodiversity

- Easter Craiglockhart Local Nature Reserve
- 50% of Reserve on Edinburgh Napier land
- Gained Green Flag Status July 2009
- Map to be updated by January 2010

- Full reviews of all campuses
- Reduction in chemicals used on-site

- Oxgangs project, Dunedin Canmore

- Edinburgh Biodiversity Action Plan
- UK Biodiversity Action Plan





Construction and Refurbishment

Sighthill

- Minimising heat loss
- Preventing overheating
- Using natural daylight and ventilation
- Combined Heat and Power (CHP)
- Energy efficient equipment
- Aiming for BREEAM Excellent

General

- Environmental risk assessments part of considerations for all building works
- Contractors asked to supply environmental statement / company environmental policy





Energy

9,704 tonnes Co₂ for gas and electricity. 86.95%.

General

- Building Management System
 - Earth Hour
 - Energy performance certificates
 - Heating policy, boiler controls and heating upgrades
 - Lighting and Quatroseal
 - Salix
-
- C&IT and Facilities initiatives



Green Gown Awards

- 'Integrated collector storage solar water heaters' (ICS-SWH) project.
- Submitted by Scottish Energy Centre, FECCI
- Second place, in category, and highly commended



Procurement

- Ethical Investment Policy
- Advanced Procurement for Universities and Colleges (APUC)
- Flexible Framework

Fairtrade

- Gained Thursday 26 May 2009
- Commitment to sell more goods
- Fairtrade Fortnight
- £320 grant for display materials
- Conference – February 2010





Transport

1,166 tonnes Co₂. 10.44%.

- Bike to Work
- Bus to Work
- City Car Club
- Liftshare

- Site and individual Travel Plans

- Cycling Scotland grant

- Grey Fleet / Taxi use
- Domestic and international flights





Waste

603 tonnes waste. 269 tonnes Co₂. 2.41%.

Recycling bins at all campuses

- Signage will be developed in 2009/10
- Imminent review of waste arisings / waste audit

Recycling initiative at student accommodation

- Grant of £2,200 from Waste Aware Edinburgh
- Encourage students to segregate waste

Halving Waste to Landfill

- National initiative
- Develop full action plan for all building waste





Water

50,000,000 Litres. 22 tonnes of Co₂. 0.20%.

General Actions

- Encouraging staff to report faults
- Scottish Water Business Stream
- Smart metering
- Savings by investigating water use
- Water saving devices to urinals and toilets

Water Bottles

- Replacement with drinking water outlets
- Reduce packaging and transportation of water





Staff, Students and Visitors

Academically

- Link to all subject areas
- Offer real life examples and situations
- Two-way information process

Personally

- Take stock of personal impact
- Eco Champions

Visitors

- Access to sustainable transport information
- Participate in recycling schemes
- Be aware of the wider environmental work the University is conducting



Management Tools

Universities and Colleges Climate Commitment for Scotland

- 41 universities and colleges are participating
- Development of five-year action plan
- Holistic approach to reducing environmental impact
- Managed by Environmental Association of Universities and Colleges

ISO 14001

- International standard
- A holistic and in-depth audit of all working practices
- A sponge for all environmental information held at the University

Carbon Management has been, since May 2009, the first environmental Key Performance Indicator for the University



Green League

2007

2008

2009

UK

75th

56th

34th

Scotland

8th

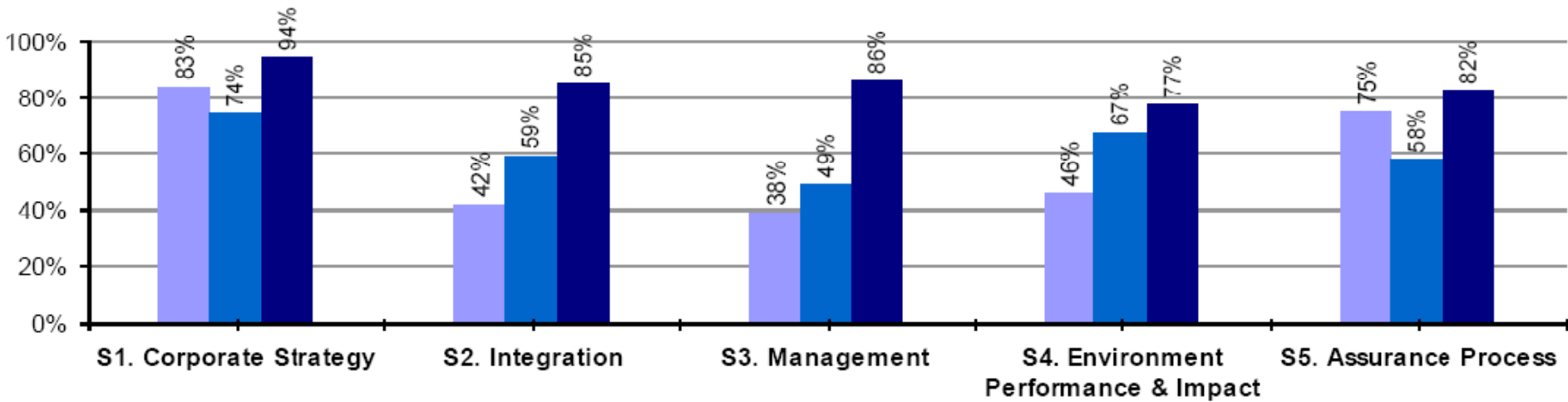
5th

3rd



Universities that Count

Overall Performance



Key

-  HEI
-  HE Sector
-  Business

Universities that Count

Overall

- Assessors impressed with the commitment for positive change at Edinburgh Napier
- Positive feedback also given for the scale of work completed to date

Main Actions

- Make environmental assessment part of all strategic decision making and risk evaluation processes
- Provide relevant environmental training to all staff
- Gain external verification of all environmental statistics i.e. Carbon Trust Standard
- Develop a full Environmental Management System
- Communicate with lenders, key suppliers and contractors regarding their environmental performance
- Build environmental considerations into all procurement decisions
- Conduct a full risk and opportunity assessment of the environmental impact of students
- Integrate environmental considerations into all courses and schools as other universities have done

2010

- The full corporate responsibility index will be completed
- Unlike 2009, results will be published publicly in 2010

Senior Staff Group

- Ratify items of work such as the Carbon Management Plan
- Build the principles, being developed by the Sustainability Office, into all operational procedures of all teams within the University
- Be accountable for the environmental impact of each working area
- Influence the overall development of environmental performance using other existing programmes of work such as Sustainable Futures
- Report issues to the Sustainability Office
- Inform the Sustainability Office of good practice
- Help coordinate environmental programmes throughout the University

- Use the knowledge, and best practice, being studied at the University to ensure that practically, Edinburgh Napier excels to become a leader in the field of Sustainable Development

Information

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