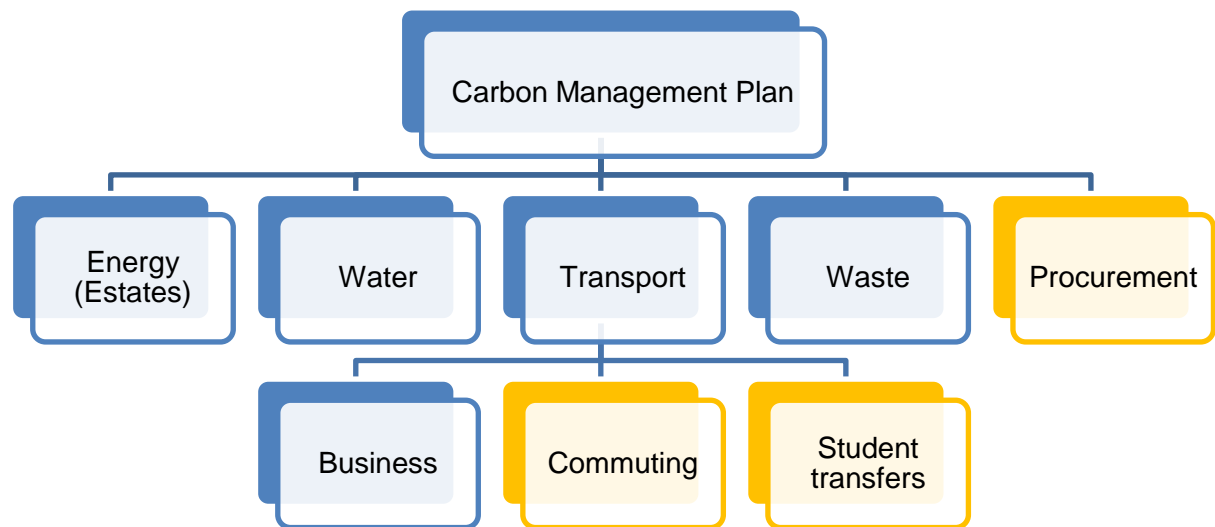


## Carbon Management Plan Review March 2011

Further to the publication of our Carbon Management Plan, 2009, we are reviewing our baseline and targets to align to HEFCE guidance.

This document outlines our new targets and provides a position statement of our achievements since the Carbon Management Plan was published. Developments on CRC and HEFCE since 2009 adds impetus to act on CO<sub>2</sub>.

### Scope of the Carbon Management Plan



The inclusions of the Carbon Management Plan are indicated in Figure 1. The areas in blue are already measureable and emissions are reported. Those in yellow form phase two of the carbon management plan and the model to quantify these emissions is currently in development with HEFCE.

Our new targets amend the baseline to 2005/2006 with an overall target of 30% reduction in carbon emissions by 2020 with an interim target of 15% by 2015. Water, and waste targets remain the same and are set to 2015.

### Governance

Internal changes to the structure of the Estates Department, has provided an opportunity to review the Energy Advisory Group and has lead to the formation of the Carbon Management Steering Group. This group will oversee the Carbon Management Plan and underlying strategies and action plans.

This group brings together representatives from all directorates and faculties of the university to ensure widespread delivery throughout the organisation.

## Targets

Our new overall carbon reduction target is 30% will give us a carbon footprint of 10,392 tonnes.

Water and waste targets remain the same and are set to 2015.

	Actual 2005/2006	Actual 2009/2010	Target 2014/2015	Target 2020/2021
Emissions tonnes CO <sub>2</sub>	14,845	13,775	12,618	10,392
Compared to 2005/2006 baseline		-7%	-15%	-30%
Water m <sup>3</sup> /m <sup>2</sup> GIA	0.491	0.442	0.442	
Compared to 2005/2006 baseline		-9.9%	-10%	

## Estates Projects

We continue to dedicate an annual capital budget for specific energy and water saving projects for our estates.

We have implemented 16 energy specific projects and saved an annual 811 tonnes of CO<sub>2</sub> since 2008. There are 9 projects in progress with an expected annual saving of 267 tonnes CO<sub>2</sub>.

## Emissions from University owned/leased vehicles

The carbon emissions from the University owned/leased fleet have been calculated for the first time and established at 84 tonnes over the 2008/09<sup>i</sup> year. The target reduction by 2015/16 is 5%. An FD transport working group has been established to explore more efficient ways to use the fleet and procurement are now taking steps to review the number, type and fuel use of vehicles as they need replacing.

## Waste

The waste reduction target is currently set between 2005/6 and 2015/16 at 15% reduction of overall refuse created. During the last year, a comprehensive audit of all the University waste streams and originators has been carried out to help inform a new waste strategy and tender which is now being rolled out across the University, The new process will increase recycling rates and reduce costs of disposing of our waste and form part of the communications to reduce waste created. Future phases of the roll out include consolidating the number and range of waste contractors for specialist wastes which will provide improved data to track emissions and financial information as well as reduce risks of non compliance with regulations.

## Phase 2 progress

### Business Travel

We have now measured the carbon emissions from the University grey fleet (vehicles owned by staff and used for business travel with mileage claims) over the 2008/09<sup>ii</sup> year which has been established at 200 tonnes over the year. The target is 5% reduction by 2015/16. Changes have been made to the process of data capture for the grey fleet so that more robust information is captured and targeted action can be taken to reduce carbon emissions and/or journeys.

A baseline for other forms of business travel (including hire cars, flights and some forms of public transport) will be established over the next year in addition to finding out new information on the make up of the emissions being created. This will allow us to set realistic and measureable reduction targets.

### Commuting

#### Staff

Over the next few months, a new survey will go out to staff to establish updated information on commuter travel. The information will allow us to estimate carbon emissions and further develop the University's travel plan initiatives to encourage staff to reduce single occupancy car journeys when travelling to and from work.

#### Students

The University is taking part in a pilot project organised by HEFCE to establish, across the sector, how emissions from student commuting (including to and from their home at the start and end of term etc.) can be established and target reductions set over the next 12 months.

### Sustainable procurement

The University has now embarked on developing a comprehensive sustainable procurement policy which will not only set out to influence suppliers practice to help us to achieve our carbon emissions reductions: it will also provide the framework to affect purchasing in terms of whole life cycle costing to consider the impact of purchasing decisions on the Universities carbon reduction targets. A draft policy is expected to be produced by July 2011.

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<sup>i</sup> The oldest most robust year of data available.

<sup>ii</sup> Average of 3 years of data from 2007 - 2010. 2008/09 used to bring in line with fleet baseline