



Energy, Utility & Carbon Management

Lancaster University's Carbon Management Plan, which was launched in January 2011, sets out our Carbon Reduction strategy which will enable us to meet challenging future carbon emissions reduction targets. The ethics and costs involved are both compelling reasons for increased focus on energy consumption and carbon management.

The University has had a very successful year in terms of energy and carbon management, and has completed and initiated a number of major projects.

In addition to reducing utilities consumption across the board, the new Energy Centre has been fitted with highly efficient central boilers and a combined heat/power engine.



Planning permission has also been obtained for the installation of a 2MW wind turbine which will decrease our reliance on non-renewable energy sources.

- Carbon emissions from electricity, gas and oil reduced by 3.7% to 27,834tCO₂e

Waste & Recycling

Lancaster University is committed to reducing waste whilst increasing the recycling rate. A 'Waste Strategy' review was completed and a successful recycling trial run at County Main and Furness Perimeter residences during 2010-11.

- The total tonnage of residual waste disposed of to landfill has fallen significantly to 870 tonnes in 2010-11. (31% less waste)

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Electricity reduction target of 5% exceeded. Achieving a reduction of 7.23% against budget
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Recycle and re-use rate increased to 53%
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FAST FACTS

ON THE INCREASE IN 2010/11

- **Sustainability**
With planning permission obtained for installation of a 2MW wind turbine
- **Recycling & Re-use Rate**
Increased to 1034 tonnes or 53% in 2010-11
- **Recycling**
With the addition of 250 recycling and waste bins across campus
- **Staff Commuting by Bus**
Increased to 19%, or around 540 staff, up from 11% in 2007*
- **Staff Car Sharing**
Increased to 14.6%, or around 420 staff, up from 12.5% in 2007*
- **BREEAM Awards**
For new and refurbished buildings with high levels of sustainability
- **Cycling**
With 118 bikes sold by *GreenLancaster* to staff and students
- **Staff Cycling to Work**
Increased to 14%
- **Community Involvement**
County, Grizedale and Pendle college residents took part in energy and carbon reduction competitions

ON THE DECREASE IN 2010/11

- **CO₂e Emissions**
Reduced to 27,582tCO₂e in 2010-11
- **Annual Electricity Consumption**
Reduced by 2.1% to 33,538MWh in 2010-11
- **Water Consumption**
Reduced from 505,639 M3 in 2009-10 to 472,192 M3 in 2010-11.
- **Annual Gas and Oil Consumption**
Reduced by 2.4% from 50,530MWh to 49,319MWh
- **Annual Waste to Landfill**
Reduced to 870 tonnes in 2010-11
- **Staff Commuting in Their Own Car**
Reduced to 46%, or around 1,320 staff*

*Based on the results of Staff Travel Surveys undertaken in 2007 and 2011.



Sustainable Travel

A new version of Lancaster University's Travel Plan has been integrated with a new staff travel policy with excellent results, showing not only how effective these initiatives are but also how staff can be encouraged to use more sustainable modes of travel.

This year has also seen a focus on understanding and monitoring academic and business travel emissions and development of a new policy for replacing the University owned vehicle fleet with low emission vehicles.

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The new LICA building uses sustainable materials and achieves 'Outstanding' BREEAM rating
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Sustainable Buildings

2011 has seen the culmination of a number of construction projects, all of which have held sustainability as a primary criterion. Lancaster University aims to achieve the highest levels of sustainability in new and refurbished buildings and developments, subscribing to the BREEAM (Building Research Environmental Assessment Methodology) system. Successes during 2010-11 have included:

- LICA Building - 'Outstanding' A first in the Higher Education sector
- Charles Carter, Sports Centre and ISS Buildings - 'Excellent'
- Faraday Complex Refurbishment - 'Very Good'

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Lancaster University is committed to improving its environmental performance
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GreenLancaster runs a variety of highly successful student facing environmental volunteering projects as part of the Student Union 'Involve' initiative. This has helped LUSU achieve the top Gold Standard in the NUS Green Impacts Awards. It has also been categorised as Highly Commended in the 'Incredible Edibles' awards for its organic garden, orchard and 'Chicken Run' projects.

Projects in the last academic year have included:

- Carbon Competitions, successfully run in County, Grizedale and Pendle colleges, encouraging student residents to reduce energy and utility consumption
- Project Exodus, which collects unwanted items for reuse at the end of the summer term has been exceptionally successful in 2011 with 16 tonnes of reusable items collected

Summary

Lancaster University publically committed to improving its environmental performance in 2005.

In recent years major projects with long lead times have been started, these are now coming to fruition.

Significant improvements can now be seen in carbon reduction, energy and utility management, waste and recycling, sustainable travel and sustainable buildings.

These topics will continue to be at the forefront of future policies and plans so that the university is well equipped for an environmentally sound and sustainable future.



Lancaster University understands its responsibility to protect the environment and is fully committed to reducing the impacts of its operations, demonstrating best practice in sustainability and influencing its members and the wider community in minimising their impacts.

With a vision for a sustainable campus, the university's improving environmental performance combined with the commitment of staff, students and all other stakeholders indicate that there will be many more successfully initiatives in the future.

This document highlights key areas of the university's environmental performance during the 2010 - 2011 year.

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ENVIRONMENTAL
PERFORMANCE
REPORT 2010-11



Lancaster University has been awarded the Carbon Trust Standard after taking action on climate change by reducing carbon emissions.

