



CARBON MANAGEMENT PLAN

2014 - 2021



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GLOSSARY

Carbon emissions - emissions of the six greenhouse gases covered by the Kyoto Protocol

Scope 1 carbon emissions - direct greenhouse gas emissions from sources owned or controlled by Birkbeck

Scope 2 carbon emissions - indirect greenhouse gas emissions from consumption of purchased electricity, heat or steam

Scope 3 carbon emissions - other indirect emissions not covered in scope 2

tCO₂e - tonnes of carbon dioxide equivalent (a metric used to compare the emissions from various greenhouse gases based upon their global warming potential)

AMBITION & VISION

Birkbeck, together with the other Bloomsbury Colleges, is committed to the responsible use of energy, water and other resources that result in the generation of carbon emissions.

Minimising the adverse environmental impacts of our activities will deliver numerous benefits not only for our institution, but also the local community and wider society.

Our ambition is to provide carbon efficient facilities that support world leading research and an educational environment that meets the needs of our students and staff. Our Carbon Management Plan is core to realising this vision.

“ Birkbeck’s Carbon Management Programme (CMP) reflects an on-going commitment by the Institution to reducing our carbon emissions through improvements to some of our activities and operations, and crucially, through the support and buy-in from the Birkbeck community, both staff and students. Therefore, as Birkbeck navigates future plans and opportunities we do so with a keen perception of our responsibilities to the environment because it is the right thing to do.”



Professor David Latchman CBE
Master, Birkbeck, University of London



CARBON MANAGEMENT HISTORY

Annual change in scope 1 & 2 carbon emissions



In 2005-2006 Birkbeck's carbon emissions from natural gas, electricity and heat consumption was 3,797 tCO₂e. Since then, emissions from these sources have increased by 15.1%, to 4,370 tCO₂e. However, since 2009-2010 Birkbeck has achieved a 9.5% reduction in carbon emissions, reflecting a more proactive approach to carbon management that has delivered reductions in the consumption of electricity and natural gas.

Increases in Birkbeck’s carbon emissions since 2005-2006 are due to growth in our operations. There has been a strategic focus on maximising the utilisation of the estate, which has delivered numerous benefits to Birkbeck. The following factors have been identified as contributing to the growth in Birkbeck’s carbon emissions:



Increasing utilisation of
Birkbeck’s physical
assets



Higher energy
demand from IT
equipment



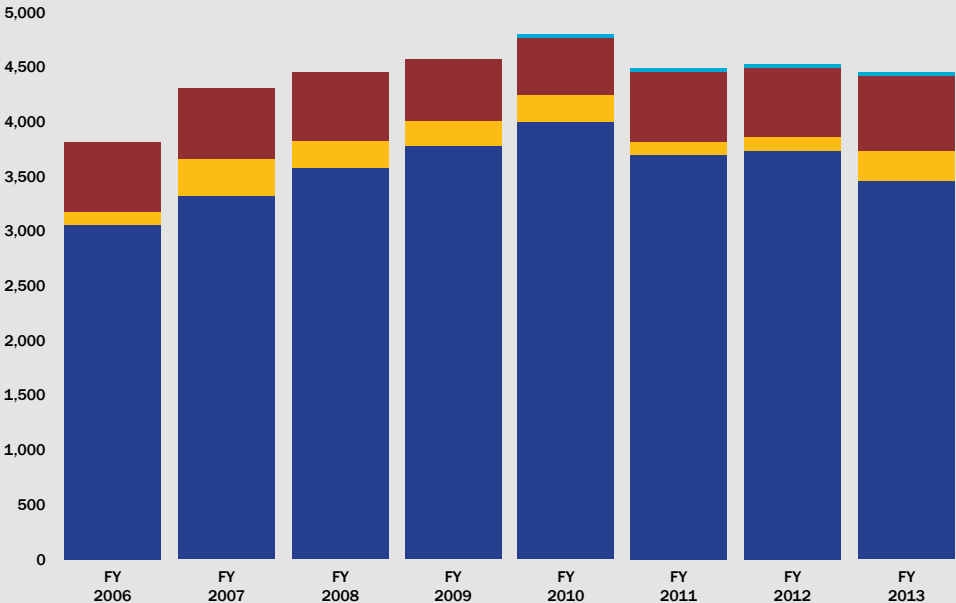
Higher energy demand
from laboratory
equipment



Improved data
quality

Birkbeck is now looking to quantify and reduce emissions from other sources, such as water (which has been monitored since 2009-2010), waste, procurement and staff business travel.

■ Electricity ■ Natural Gas ■ Heat ■ Water



DRIVERS



Climate Change



**Reputational
Risks &
Opportunities**



**Environmental
Management
Standards**



HEFCE



**Stakeholder
Concerns**



Cost Savings



**International
Agreements,
EU & National
Legislation**

In 2008 the UK established the world's first legally binding climate change target in order to kick-start the transition to a low carbon economy. To help meet this target and support the global effort to reduce greenhouse gas emissions, Birkbeck has made a serious commitment to reduce emissions from our activities.

We have identified the seven major themes that are driving our carbon management efforts.

APPROACH

Birkbeck is taking a coordinated, pragmatic and analytical approach in order to achieve carbon reduction targets and maximise the investment opportunity and returns from a carbon management programme. This approach encompasses the following four areas:

Governance

Key to achieving the aims of this Carbon Management Plan is the implementation of a clear governance structure that supports key individuals and groups to focus on the aspects and impacts over which they have the most influence.

Technical

Identifying and implementing technical energy conservation projects will deliver significant reductions to carbon emissions, as well as helping to reduce costs and modernise our facilities.

Engagement

Our staff, students and other users of the estate have a big role to play in reducing our carbon emissions. We have set up a network of Green Champions across the Bloomsbury Colleges who will be running switch-off campaigns, and we will be communicating our progress through live energy displays and annual carbon reports.

Data

A high quality Carbon Management Plan must demonstrate a robust system to measure and verify savings. Birkbeck has recently implemented an online carbon and energy management system that supports the management of carbon impacts, enabling on going reporting and communication of progress.

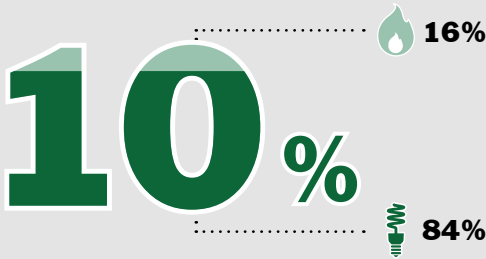
PROJECTS THAT WILL DELIVER CARBON SAVINGS

A programme of site surveys, detailed energy audits and stakeholder interviews uncovered numerous opportunities for reducing the carbon emissions produced by Birkbeck's activities.

Some of these projects will be ongoing, whereas others will be implemented on a one-off basis. For more information on the current status of projects, please refer to the Bloomsbury Greenthing website.

ENERGY

We have already identified projects that are expected to deliver a further 10% saving in carbon emissions from the consumption of electricity, natural gas and heat.



Lighting upgrades

Targeted switch-off campaigns

Heating, ventilation and air conditioning upgrades

Laboratory optimisation

Birkbeck's Expected Scope 1 & 2 Carbon Emissions: 2014 – 2021



Scenario analysis identified this carbon emissions trajectory as the most probable.

WATER



Improving data quality to target certain areas

Installation of water saving devices

Laboratory optimisation

WASTE



Reducing waste production

Reusing waste - WARPIT

Continue to improve recycling rates

Reducing and recycling food waste

PROCUREMENT



Energy efficient equipment

Sustainable stationery

Re-using furniture and equipment

Fairtrade food products

TRAVEL



Student and staff surveys to monitor emissions

Video conferences

Low emission travel options

HOW TO GET INVOLVED

To effectively manage our environmental impacts we need a collaborative and inclusive approach. The sustainability team is keen to involve students, staff and the rest of the Bloomsbury Colleges.



Switch it off

It sounds simple, but much of our energy efficiency depends on the awareness and behaviour of staff and students.



Recycle

Making use of the recycling facilities on campus will help to reduce the amount of waste that goes to landfill.



Low emissions travel options

Using low emission alternatives when travelling for business will help to reduce our carbon footprint.



WARPIT

The Waste Action Reuse Portal is an online system that allows users to give away, claim, loan or borrow resources.

JOIN THE GREEN CHAMPIONS NETWORK

Are you interested in making your work space greener and encouraging positive behaviour among your colleagues? Would you like to learn more about sustainability issues?

The Green Champions Network consists of staff and student volunteers from all departments and institutions who want to make the Bloomsbury Colleges more sustainable and a better place to work and study. The sustainability team frequently organizes events that reflect the Green Champions' interests. We encourage staff and students to contribute with ideas for future events.

If you'd like to become a Green Champion contact the Greenthing team and come to the next network meeting. Your inputs and thoughts are valuable to our work!



THE LIVE BOARD

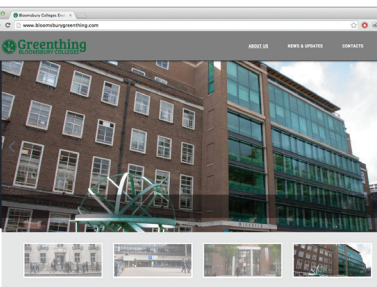


Certain aspects of Birkbeck's Carbon Management Plan are 'live', in that they are continually changing, being updated or refined. These non-static aspects, which appear in the full technical version of Birkbeck's Carbon Management Plan, are outlined below. Keep up to date with the changes on the Bloomsbury Greening website and looking out for Birkbeck's Annual Carbon Report.

Carbon performance and scope 1 & 2 emissions scenarios

Carbon saving and investment summary

Reporting framework



STAY INFORMED

The sustainability team has recently launched the new [Bloomsbury Greening website](#). This is used to share information across the colleges and promote best practice. For more ideas on how you can contribute to our carbon reduction efforts, please check it out.

The sustainability team will also be launching a Bloomsbury Greening app and sharing updates through the monitor screens at reception and eNewsletters.

You will no doubt see the sustainability team around campus, running various events and upgrading the estate to improve carbon efficiency. Come and say hi!



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For details, call the Disability Office on 020 7631 6315.



CarbonCredentials

www.carboncredentials.com