

CARBON MANAGEMENT PLAN

35% reduction by 2020/21

CMP UPDATE 2013/14

The University of Leeds is committed to reducing its carbon emissions; we are working towards a 2020/21 reduction target of 35% against our 2005/6 baseline.

Our Carbon Management Plan sets out our vision to:

- Create a cultural change in use of space and resources.
- Minimise our impact upon the environment.
- Become a leader in carbon reduction and a low carbon institution.
- Increase opportunities in areas of sustainability and energy research.
- Reduce exposure to energy related costs.

WHAT HAVE WE BEEN UP TO?

The Carbon Management Plan budget projects included:

- Out-of-hour floor damper adjustment and ventilation regime (540 tCO₂e saved 13/14).
- Installation of new fume cupboard controls (314 tCO₂e saved 13/14).
- Insulation measures and lighting replaced with LED lights (20 tCO₂e saved 13/14).

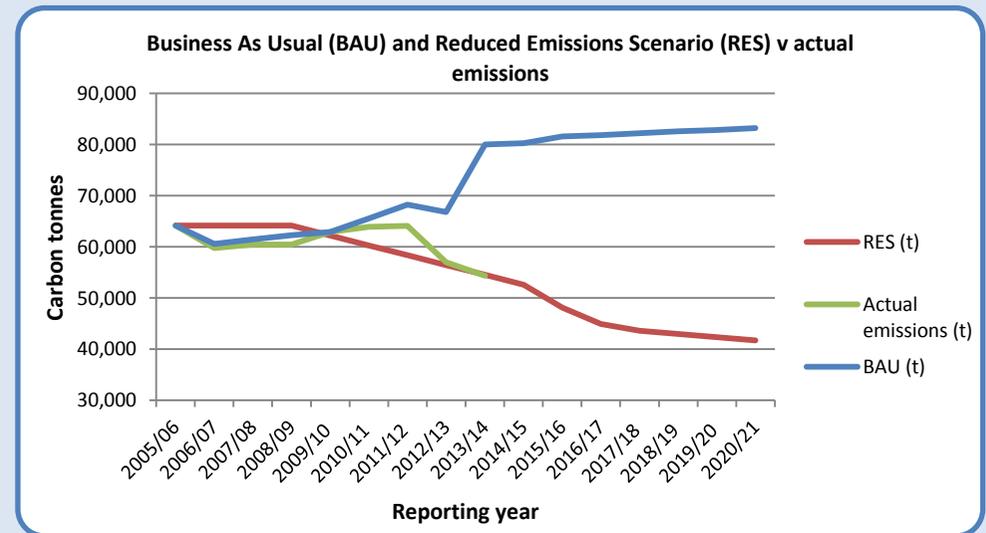
Other non-CMP budget projects have been ongoing yet are harder to quantify, but include smaller projects and behaviour change initiatives.

HOW ARE WE DOING?

In 2013/14 we achieved our Reduced Emissions Scenario Target, with an additional reduction of 149tCO₂e. From 2012/13, total energy consumption decreased by 14% and carbon emissions decreased by 5%. These substantial reductions can be partly explained by a number of building disposals and a warmer winter.

The emissions for 2013/14 were 32% lower than the Business as Usual (BAU) projections for this year.

2013/14 saw the highest estimated cost savings through carbon emissions reductions when compared to BAU since the 2005/6 baseline year, with an estimated saving of £3,642,910.



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OUR REPORT CARD

All buildings to have building level energy meters (electricity, and heat) by 2012. 

Behaviour change campaign to save 840 tonnes of carbon. 

Reduction in space heating level to 21°C on campus. 

Reduction in space heating level to 21 – 23°C in residences. 

Comfort cooling and air condition set to 24°C as a minimum. 

Invest in updated systems and renewable technology in GSC, saving 8,000t carbon p.a. 

Improve campus building management systems saving 3,000t carbon. 

Install variable speed drives on motors saving 485t carbon p.a. 

Improve use and control of fume cupboards saving 1,946t carbon by 2020/21. 

Release of surplus buildings releasing capital and providing annual carbon savings of 3,650t. 

Key:  Met target.  On track.  Still work to be done.

LOOKING AHEAD

In the coming year we will:

- Focus on the Energy Monitoring and Targeting system to increase energy reporting.
- Install PIR and CO₂ detectors in the Michael Sadler building to operate on a demand-based control model.
- Introduce water saving measures such as installing pressure reducing valves and installing flush controls, due to the 10% rise in water consumption in 2013/14.
- Installation of local electrical heating facility to reduce summer steam use which is estimated to save 351 tCO₂e annually.
- Develop Climate Hubs to support carbon emission reductions through collaboration.

We aim to ensure that our energy and carbon savings are transparent by streamlining reporting and making data accessible to all staff and students. The data will be available for student education and research.

ARE WE ON TARGET?

We exceeded the target for this year, however for future years the investment in carbon reductions will have to increase to account for the University Masterplan. This will put increased strain on the ability to reach the 35% reduction in carbon emissions target due to growth of the estate and an estimated increase of 16142MWh of electrical demand by 2020.

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