



Climate Action

SECONDARY CARBON REDUCTION PLAN

February 2022

Introduction

This updated version of the University's Carbon Reduction Plan is a draft, as there are still sections that cannot be completed at the time of writing. Our targets have been set, our carbon footprint is complete, but the list of planned projects is currently under development. This includes a Scope 3 Reduction Plan (2023).

This document has been written according to the specifications of the UK Government Procurement Policy Note (PPN) 06/21. However, the University already reports on its Scope 1, 2 & 3 emissions, using more categories than required for this document. Our reported carbon footprint is also significantly larger than the limited version provided in this document. The following table shows the additional categories in the University's footprint, with the final row showing the relevant calculated carbon footprints.

Scope	Category ¹	PPN 06/21 requirement	University footprint
Scope 1	-	✓	✓
Scope 2	-	✓	✓
Scope 3	1. Purchased goods & services		✓
	2. Capital goods		✓
	3. Fuel & energy related activities		✓
	4. Upstream transportation & distribution	✓	✓
	5. Waste generated in operations	✓	✓
	6. Business travel	✓	✓
	7. Employee commuting	✓	✓
	8. Upstream leased assets		
	9. Downstream transportation & distribution	✓	✗
	10. Processing of sold products		
	11. Use of sold products		
	12. End-of-life treatment of sold products		
	13. Downstream leased assets		
	14. Franchises		
	15. Investments		✓
Footprint	(tCO ₂ e)	45,045	115,738

✓ = Included in footprint

✗ = Excluded on a *de minimis* basis

We are also currently preparing a new Carbon Management Plan (CMP), which will include projects against all the University Scope 3 categories specified above. Therefore, this Carbon Reduction Plan will be subsidiary to the main CMP, as it only includes projects that are within the boundaries of this document. This could result in fewer projects within this document, as our targets are against the wider boundary, and we anticipate that a major focus will be on Scope 3 categories 1 and 2. We also produce our own annual Carbon Report, which can be viewed at <https://www.bath.ac.uk/publications/annual-energy-and-environment-reports/>.

¹ Scope 3 categories are specified by the Greenhouse Gas Protocol <https://ghgprotocol.org/standards/scope-3-standard>

Commitment to achieving Net Zero

The University of Bath is committed to achieving Net Zero emissions on scopes 1 & 2 by 2030, and expanding this target to include scope 3 by 2040.

Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which emissions reduction can be measured.

Baseline Year: 2019-20	
Additional Details relating to the Baseline Emissions calculations.	
<p>We have been reporting on our Scope 1 & 2 emissions since 2005. We have expanded this to include a full Scope 3 assessment for the 2019-20 year, which we have adopted as our baseline for future targets. The Scope 3 emissions include GHG Protocol sub-categories 4, 5, 6 & 7, as required with the requirements of UK Government Procurement Policy Note (PPN) 06/21. It excludes 9. <i>Downstream transportation & distribution</i> on a <i>de minimis</i> basis, as the University does not manufacture any products. However, we expect to start reporting against sub-category 9 in 2023, subject to the publication of the proposed guidelines for carbon reporting by the Environmental Association for Universities & Colleges (EAUC). This will not involve a change in our total scope 3 footprint, as the change will involve the majority of the emissions reported in category 7 transferring to category 9.</p> <p>The scope 3 value below is different to that quoted in version 1 of this plan. It has been reduced by 2,349t owing to an error in the CO₂ calculation for category 7, where one set of data was being double counted. This error was also replicated in more recent calculations and as it was significant, has been applied back to the 2018-19 baseline and intervening years.</p>	
Baseline year emissions (2019-20):	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	7,792
Scope 2	5,300
Scope 3 (Included Sources)	29,851
Total Emissions	42,943

Current Emissions Reporting

Reporting Year: 2020-21	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	10,810
Scope 2	5,487
Scope 3 (Included Sources)	26,241
Total Emissions	42,538

Emissions reduction targets

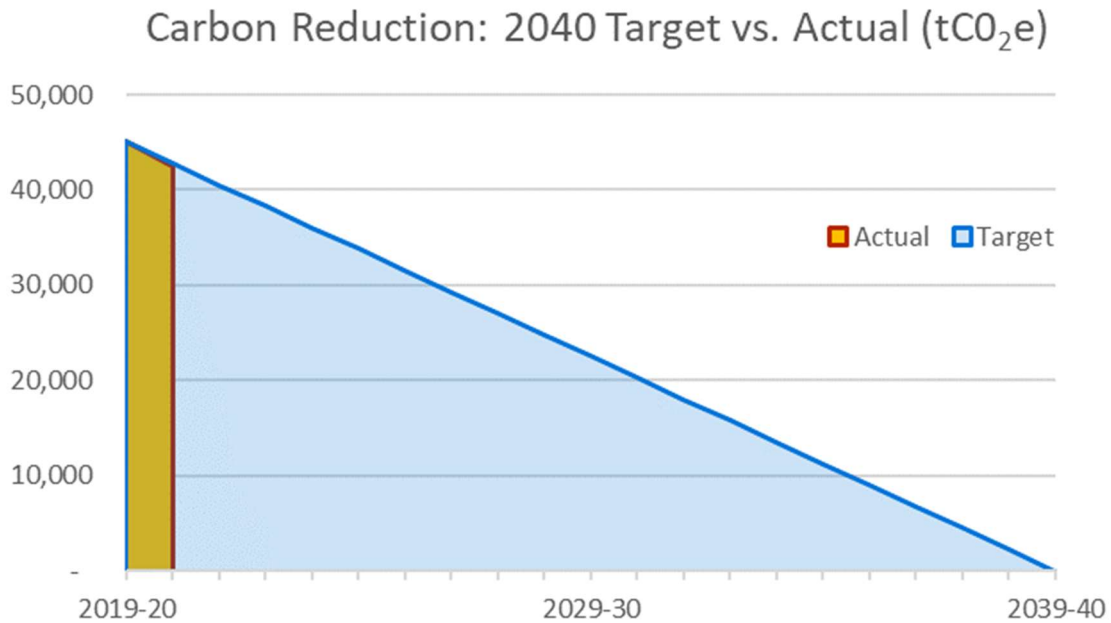
The University set its original carbon reduction target in 2011, which had an objective of reducing our scope 1 & 2 carbon footprint by 43% by 2020, from a 2005 baseline. This target was achieved last year, on schedule, with emissions showing a 45% reduction against the baseline.

As the target had been met, and as part of the University's new Climate Action Framework, we adopted the following new carbon reduction targets, to:

- Be net zero on Scope 1 & 2 emissions by 2030
- Achieve a 50% reduction in our Scope 3 emissions by 2030
- Be net zero on Scope 1, 2 & 3 emissions by 2040

As we view our cumulative carbon emissions over the next year as being equivalent to having a carbon budget, we aim to reduce our carbon emissions over the next five years to 32,000 tCO₂e by 2024-25. This is a reduction of approximately 30%.

Progress against these targets can be seen in the graph below:



Carbon Reduction Projects

Completed Carbon Reduction Initiatives

2020-21 has been a consolidation period for the University, with limited direct action being achieved during the year. This has also been affected by the COVID pandemic, which has diverted attention from energy savings to meeting the requirements of providing a safe and legal educational environment for students and staff.

However, during 2020-21, there was substantial indirect action, including the following:

- Declaration of a Climate Emergency, coupled with an executive commitment to take a *Whole Institutional Response* to reducing our carbon footprint.
- Executive signoff of a Climate Action Framework, which included 11 core Principles (including the net zero carbon targets outlined above)
- Formation of a dedicated Climate Action Team, with six members of staff
- Groundwork preparation for future emission reductions
- First detailed calculation of the University's Scope 3 emissions, in preparation for developing a Scope 3 Carbon Reduction Plan in mid-2022.

For 2021-22, some projects have already been implemented, with capacity building continuing. These include measures such as:

- The Sports Training Village swimming pool air handling unit (AHU) was replaced with a new and more efficient model. It is predicted to annually save 1.5 GWh of gas and 320 tCO₂e across Scopes 1 & 3. (August 2021)

- First laboratory achieving Bronze LEAF accreditation (The Laboratory Efficiency Assessment Framework). The plan is to extend accreditations across campus. (December 2021)
- Sustainable Travel & Expenses Policy, signed off by the University Executive Board. This encourages unnecessary travel and bans domestic flights within mainland UK, where the alternative is of less than eight hours duration (January 2022)
- Sustainable Buildings Standard for new build and refurbishments (due for executive sign-off)
- Write a Campus Decarbonisation Plan for gas and electricity consumption (due April 2022)
- Write a Scope 3 Reduction Plan (under development, to be completed in 2023)
- Write a Sustainable Procurement Strategy (2022-23)
- Directly working with suppliers to reduce the carbon footprint of their products and services, and to implement smart delivery processes in order to avoid unnecessary delivery transportation

The next version of this Carbon Reduction Plan will include a comprehensive list of carbon reduction projects

Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard² and uses the appropriate Government emission conversion factors for greenhouse gas company reporting³.

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements, and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard⁴.

This Carbon Reduction Plan has been reviewed and approved by the Chief Operating Officer.

Signed on behalf of the Supplier:

To be Confirmed.....

Date:

² <https://ghgprotocol.org/corporate-standard>

³ <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

⁴ <https://ghgprotocol.org/standards/scope-3-standard>