

Carbon Reduction Plan

Supplier name:The Sheffield College.....

Publication date:1st January 2024.....

Commitment to achieving Net Zero

The Sheffield College is committed to achieving Net Zero emissions 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: 2021/22

Additional Details relating to the Baseline Emissions calculations.

We do not currently report the full range of Scope 3 emissions. Our baseline and current year emissions include business travel by car, and well to tank and transmission and distribution emissions from fuel and electricity use. Next year (2023/24) we hope to include more granular business travel data, and emissions related to waste and employee commuting.

As a FE College, we are following the Standardised Carbon Emissions Reporting Framework for HE and FE Institutions, a reporting framework that follows the GHG Protocol that was produced in 2022 by the EAUC, funded by the Department of Education. In this framework, student travel is categorised as downstream transportation and distribution, and we hope to have better data on this element of our Scope 3 emissions for our next report (2023/24).

Upstream and downstream transportation and distribution of products and services is more challenging but is included in our Action Plan for future years.

Total CO₂e conversion factors have been used to account for carbon dioxide, methane and nitrous oxide a relevant to fuel, gas and electricity use. The Colleges activities are not deemed to produce material emissions of HFC's, PFC's, SF₆ or NF₃.

Baseline year emissions:	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	545.65
Scope 2	845.69
Scope 3 (Included Sources)	360.75 (includes Business Travel by car and well to tank and transmission and distribution related emission from fuel and electricity use.)
Total Emissions	1752.09

Current Emissions Reporting

Reporting Year: 2022/23	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	467.42
Scope 2	827.96
Scope 3 (Included Sources)	340.12 (includes Business Travel by car and well to tank and transmission and distribution related emission from fuel and electricity use.)
Total Emissions	1635.57

Emissions reduction targets

Emissions have decreased by 6.67% in 22/23 from our baseline year of 21/22. This reflects a reduction in both gas and electricity usage.

In order to continue our progress to achieving Net Zero, we recognise the need for regular milestone targets along the way. We have an interim target to be Carbon Neutral by 2030.

We are also using the 'Cost of Net Zero' calculator tool for HE and FE Institutions produced by Energise for the EAUC, AUDE and BUFDG to produce a forecast to our Net Zero target date of 2040, which we can ultimately populate with the major investments that will be required to reach Net Zero as they are identified as part of our ongoing investment strategy. This will allow us to forecast more accurate milestone targets. Following a relatively smooth reduction curve to 2040 would result in a reduction in emission to 820 tonnes CO₂e by 2028, a fall of 39%.

Without specific identified emissions reduction projects, we can only provide a 'Business as Usual' projection at this stage.

Under a BAU scenario, we project that carbon emissions will decrease over the next five years to 1003.5 tCO₂e by 2028, as a result of grid decarbonisation. This is a reduction of 40%.

Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the 2021/22 baseline. The carbon emissions reduction achieved by these schemes has not been directly measured, but these measures will be in effect when performing the contract.

We are seeking every opportunity to enhance our positive impact through initiatives such as joining the Alliance for Sustainability Leadership in Education (EAUC) and hiring a dedicated Sustainability Lead.

The College has invested circa £300,000 in installing LED lighting across the Estate including the City Campus car park. Other ongoing energy efficiency measures include upgrading elements of our Building Management System (BMS) system to ensure optimisation and accuracy of the system and its outputs. Further measures include an asset replacement programme, removing ageing assets from the College Estate to implement more efficient models and upgrading insulation in areas where needed to reduce demand for extra heating.

To encourage green transportation around the college, we are investing in resources to create a positive cultural shift towards active, sustainable modes of travel. We are engaging staff and students to promote cycling to our campuses through our bicycle-lending scheme. Additionally, we have invested circa £80,000 in expanding our electric vehicle fleet and we are looking to continue investing into growing this fleet to reduce our carbon footprint.

In the future we hope to implement further measures such as:

We are producing an Environmental Sustainability Action Plan which contains short, medium and long term actions across 5 themes:

- Leadership and Governance
- Estates and Operations
- Partnerships and Engagement
- Teaching and Learning
- Data Collection and Reporting

Actions in the Estates and Operations theme will include measures which will lead to reduction in our Scope 1, 2 and 3 emissions including, but not limited to:

- producing plans for the decarbonisation of heat in our buildings;
- increase in generation and use of renewable electricity;
- an update to our Travel and Transport plan;
- a review of our food offer and food preparation facilities;
- a review of our procurement practises and the implementation of policies and partnerships to reduce our supply chain emissions.

Declaration and Sign Off

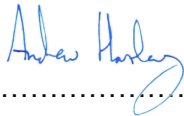
This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting².

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 Standardised Carbon Emissions Reporting Framework for HE and FE Institutions, a reporting framework that follows the GHG Protocol that was produced in 2022 by the EAUC, funded by the Department of Education and aligns with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard³.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

Signed on behalf of the Supplier:



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Date:1st December 2023

¹<https://ghgprotocol.org/corporate-standard>

²<https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

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