

Carbon Reduction Plan

Supplier name:The Sheffield College.....

Publication date:31st March 2025.....

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 emissions include business travel by car, and well to tank and transmission and distribution emissions from fuel and electricity use. This year we have included emissions related to waste, water, employee commuting and some aspects of student international travel.

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 (2024/25).

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)	379.79 (includes Business Travel by car and well to tank and transmission and distribution related emission from fuel and electricity use.)
Total Emissions	1771.13

Current Emissions Reporting

Reporting Year: 2023/24
<p>Additional Details relating to Current Year Emissions:</p> <p>We have applied an operational control approach to account for energy emission values from sites that the college has direct operational control over. The report therefore includes the City campus, Hillsborough campus, Peaks Campus and Olive Grove campus. We have also included Pennine 5 this year as we now have access to energy usage data, we pay for energy use and have a degree of operational control at the site.</p> <p>Actual energy consumption data has been used for August 2023 – July 2024, and the previous year. We have also included waste and water consumption data, employee commuting data and data relating to our Turing international student travel programme in our Scope 3 reporting this year.</p> <p>Waste data has been provided by weight by our main waste contractors and includes central disposal of general waste, paper and card and plastic and can recycling, as well as central use of skips.</p> <p>Water consumption and wastewater data has been taken from supplier bills.</p>

Employee commuting data is based on an employee travel survey conducted in December 2023. Information from this survey, including usual travel mode, average distances travelled and average number of days worked, has been used to calculate passenger miles per travel mode for FTE employees.

DEFRA conversion factors for 2024 have been used for the year 2023/2024, and 2022/2023 CO₂e figures updated to reflect DEFRA 2023 conversion factors, except for purchased heat and steam, where a site-specific carbon conversion factor has been used provided by our supplier.

EMISSIONS	TOTAL (tCO₂e)	TOTAL COMPARABLE WITH BASELINE YEAR (tCO₂e)
Scope 1	571.00	527.20
Scope 2	813.71	803.92
Scope 3 (Included Sources)	1485.43 (includes Business Travel by car, energy related Scope 3 emissions, waste, water, employee commuting and international travel relating to our Turing programme.)	340.16 (includes Business Travel by car and well to tank and transmission and distribution related emission from fuel and electricity use.)
Total Emissions	2870.85	1671.99

Emissions reduction targets

Our total emissions this year are not comparable with the previous year due to the inclusion of Our Pennine 5 campus and more Scope 3 emissions in this year's report. However, an additional column has been added to the data table to illustrate both the comparable emissions, and our total measured emission this year. Our directly comparable emissions can be summarised as follows:

- We saw an overall 1.5% reduction in CO₂e emissions year on year. This breaks down as a 12% increase in Scope 1 emissions, 8% decrease in Scope 2 emissions and 4% decrease in Scope 3 emissions year on year.
- There has been a 5.5% reduction in CO₂e emissions against 2021/2022 baseline. This breaks down as a 3% decrease in Scope 1 emissions, 5% decrease in Scope 2 emissions and 10% reduction in Scope 3 emissions.

- In 2023/2024 more floor area has been included (Pennine 5 campus) and more Scope 3 emissions included (student international trips; employee commuting; waste; water) so the overall total for 2023/2024 is higher.

We have a target of a 5% reduction in CO₂e emissions in 2024/25.

Carbon Reduction Projects

In the year 2023/2024, we have completed the following actions which contribute to increased energy efficiency:

- The Environmental Sustainability Action Plan was approved in November 2023. This plan sets out the actions to be taken to work towards our ambition of being a Net Zero organisation by 2040. Short, medium and long-term actions are set out under the 5 themes recommended in the FE Roadmap – Leadership and Governance, Estates and Operations, Teaching and Learning, Partnerships and Engagement, and Data and Reporting.
- Heat Decarbonisation Plans were commissioned for our City, Hillsborough, Olive Grove and Peaks campuses. These set out high level recommendations to remove the use of gas for heating, through the installation of air source heat pumps or consideration of additional connections to the existing district heating network. Installation of ancillary solar PV was also recommended to support the change to air source heat pumps. The only building fabric upgrade recommended was replacement glazing at part of the Peaks campus. Funding opportunities to enable implementation of heat decarbonisation projects are being explored.
- We have continued to upgrade light fittings to LEDs on a rolling basis, reaching approximately 40% coverage at the beginning of 2024, with more replacements happening as part of wider project works at Olive Grove and Peaks campuses.
- We have reinstated the automated meter reading system at City and Hillsborough campuses, giving us greater visibility of energy use in different parts of the buildings.
- We have updated our Travel Plan, setting out actions to support a reduction in fossil fuel based journeys and an increase in sustainable and active travel options.

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:

Andrew Hartley

Andrew Hartley, Deputy Chief Executive

Date: 31st March 2025

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>