



Streamlined Energy and Carbon Report 2022-2023

Introduction

Streamlined Energy and Carbon Reporting (SECR) is a mandatory reporting requirement in the United Kingdom that came into effect 1 April 2019 under changes introduced by the Companies (Directors' Report) and Limited Liability Partnerships (Energy and Carbon Report) Regulations 2018 ('SI 2018/1155').

The Sheffield College is committed to regularly reporting on energy and carbon across its campuses. Energy information was calculated using the approved methodology for Green House Gas (GHG) Reporting Protocol for Corporations and appropriate conversion factors relevant for each reporting year. Our SECR disclosure presents our carbon footprint across Scopes 1, 2 and selected Scope 3 emissions, together with an appropriate intensity metric and total electricity, gas and transport use.

Benefits of SECR reporting include increasing internal awareness of energy use and cost, standardising external reporting, and providing greater transparency for stakeholders on energy efficiency within the College. It also provides transparency of the adoption of energy efficiency measures in the College, which will be discussed in the following section.

Energy efficiency action taken from 2021 to 2023

The Sheffield College acknowledges its responsibility to contribute towards a healthier, cleaner and greener environment. We have committed to being a net zero carbon organisation by 2040 with the milestone of being carbon neutral by 2030. We are seeking every opportunity to enhance our positive impact through initiatives such as joining the Alliance for Sustainability Leadership in Education (EAUC), hiring a dedicated Sustainability Lead and forming an Energy Working Group to identify opportunities to reduce energy consumption.

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.

Quantification methodology

We have aligned reporting to the 2019 HM Government Reporting Guidelines. The methodology used to calculate greenhouse gas emissions follows the widely recognised international GHG Reporting Protocol - Corporate Standard. Energy usage data has been assessed and validated by Turner & Townsend Consulting, providing independent assurance for Scope 1, 2 and selected Scope 3 emissions data, intensity ratio and energy data. Actual data consumption has been used for the previous year and August 2022 - July 2023. DEFRA conversion factors have been used in all cases except for purchased heat and steam, where a site-specific carbon conversion factor has been used provided by our supplier.

SECR data 2022-2023

	Current year	Previous year
	August 2022 - July 2023	August 2021 - July 2022
Energy consumption used to calculate emissions		
Gas (kWh)	2,585,666.70	3,017,016.92
Purchased Electricity (kWh)	3,467,853.90	3,600,610.90
Purchased Heat and Steam (kWh)	2,537,850.00	2,409,640.00
Transport from Owned Fleet (Litres)	601.83	938.94
Other Fuel (Litres)	202.31	74.09
Oil (Litres)	0	0
Employee Business Travel (Miles)	53,375	52,446
Scope 1 emissions (tonnes CO₂e)		
Gas consumption	465.42	543.06
Oil consumption	0	0
Transport from Owned Fleet	1.54	2.40
Annual contribution to carbon footprint (%)	28.55%	32.36%
Scope 2 emissions (tonnes CO₂e)		
Purchased electricity	670.61	696.29
Purchased Heat and Steam	157.35	149.40
Annual contribution to carbon footprint (%)	50.62%	48.27%
Scope 3 emissions (tonnes CO₂e)		
Employee Business Travel	14.67	14.42
Well to Tank Gas	80.41	93.83
Well to Tank Diesel (owned fleet and horticulture)	0.49	0.62
Well to Tank Electricity Generation	160.39	166.53
Transmission and Distribution - Electricity	61.35	63.69
Transmission and Distribution - Heat	22.82	21.66
Annual contribution to carbon footprint (%)	20.80%	20.60%
Total gross emissions in metric tonnes CO₂e	1635.57	1752.09
Total Full Time Employees (FTE)	1200	1210
Tonnes of CO₂ per member of staff (Intensity Ratio)	1.36	1.45

Intensity measurement

The intensity metric selected for the organisation is tonnes gross emissions in metric tonnes CO₂e per full time member of staff as recommended by SECR guidance. The carbon intensity of The Sheffield College will provide a key indicator of future energy efficiency performance. The Sheffield College remains committed to reducing the carbon intensity of its electricity generation.