The Sheffield College

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 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 3 emissions data, intensity ratio and energy data. Actual data consumption has been used for the previous year and August 2022 – January 2023. Data was estimated for February 2023 – July 2023 based on historic actual data consumption.

SECR data 2022-2023

	Current year	Previous year
Energy consumption used to calculate emissions	August 2022 - July 2023	August 2021 – July 2022
Gas (kWh)	454948	421417
Purchased Electricity (kWh)	610640	622562
Input Energy from Waste - Fuel (kWh)	462	398
Output Energy from Waste - Electricity (kWh)	192	175
Energy from Waste Transmission - Heat (kWh)	705	1827
Energy from Waste Transmission - Electric (kWh)	192	175
Transport from Owned Fleet (Litres)	687.68	1250.4
Oil (Litres)	0	0
Employee Transport and Commuting (Miles)	10839	23601
Scope 1 emissions (tonnes CO_2e)		
Gas consumption	81.89	77.19
Oil consumption	0	0
Transport from Owned Fleet	1.759	3.141
Annual contribution to carbon footprint (%)	40.8%	36.7%
Scope 2 emissions (tonnes CO_2e)		
Purchased electricity	118.086	132.189
Input Energy from Waste Fuel	0.079	0.068
Output Energy from Waste	0.037	0.037
Annual contribution to carbon footprint (%)	57.7%	60.4%
Scope 3 emissions (tonnes CO_2e)		
Employee Transport and Commuting	2.98	6.398
Energy from Waste Transmission - Heat	0.006	0.034
Energy from Waste Transmission - Electric	0.003	0.002
Annual contribution to carbon footprint (%)	1.5%	2.9%

Total gross emissions in metric tonnes CO_2e	204.8	219.1
Total Full Time Employees (FTE)	1200	1210
Tonnes of CO_2 per member of staff (Intensity Ratio)	0.171	0.181

Intensity measurement

The intensity metric selected for the organisation is tonnes gross emissions in metric tonnes CO_2e 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.