



Streamlined Energy and Carbon Report

(SECR)

2020-2021

Our Purpose

Transforming Lives by providing outstanding educational opportunities for the benefit of the students and the communities we serve.

Our Values;

Potential – We believe every student should achieve their potential

Respect – we value professionalism, commitment and excellence in our staff

Community – We believe in a strong community presence, embedding everything we do in the local community

Diversity – we believe in celebrating the differences between individuals and the diversity in our community

Excellence – We believe in having high standards to ensure excellence in everything we do.

Introduction

In line with the guidance for Streamlined Energy and Carbon reporting, designed to increase awareness of energy costs and usage within organisations and provide data to assist in help with reducing negative impact on climate and the environment; Tyne Coast College can report the figures below calculated and based on UK Government Greenhouse Gas (GHG) Reporting Protocol;

Greenhouse Gas Emissions & Energy use data for the period 1st August 2020 to 31st July 2021	2020/21	2019/20
Energy Consumption used to calculate emissions (KWh)	15,786,181	10,934,790
Energy Consumption breakdown (KWh):		
Gas	12,398,998	7,846,628
Electricity	3,337,025	3,002,576
Transport Fuel	50,158	85,586
Scope 1 emissions in metric tonnes CO2e		
Gas Consumption	2,271.00	1,442.76
Own Transport	3.20	3.30
Total Scope 1	2,274.20	1,446.06
Scope 2 emissions in metric tonnes CO2e		
Purchased Electricity	708.55	700.02
Scope 3 emissions in metric tonnes CO2e		
Business Travel in employee-owned vehicles	5.51	17.51
Total gross emissions in metric tonnes CO2e	2,988.26	2,163.59
Intensity Ratio		
Tonnes CO2e per member of staff	5.64	4.04



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Quantification and Reporting Methodology

Emissions have been calculated and reported in line with their individual scope and classification as per the guidance set out by the UK Government GHG Protocol. The college have followed 2019 HM Government Reporting Guidelines and used the 2020 (2019/20 data) and 2021(2020/21 data) UK Government's conversion factors for Company Reporting.

Scope 1 - Gas KWh figures have been taken from supplier invoices for the reporting period and then applying the 2021 conversion rate factor for Natural Gas. Own Transport emissions have been determined by using the total mileage per vehicle and applying the 2021 rate conversion for Passenger and Delivery Class 2 Diesel Vehicles.

Scope 2 – Electricity KWH have been taken from supplier invoices for the reporting period, and the conversion rate for UK Electricity applied to establish the CO₂e emission.

Scope 3 - Emissions has been calculated based on total staff mileage claims paid in the reporting period and then by applying the 2021 conversion rate for an average petrol car.

Intensity measurement

The chosen intensity measurement ratio is Total Gross emissions in metric tonnes (CO₂e) per staff member (Head Count), this is the ratio recommended for the sector.

The ratio has increased from 4.04 in 2019/20 to 5.64 in 2020/21 due to an increase in gas & electricity consumption. This is the impact of the global pandemic which saw the campus sites being closed during the start of 2020; the college reopened in the summer of 2020 to allow students to finish practical assessments. Both sets of results therefore are non-representative of past or future usage as sites were not operational during usual academic times. The energy consumption in 2019/20 was under what is usual for the college, therefore making 2020/21 seem very high.

Measures taken to improve efficiency

The college has undertaken the following measures to reduce its carbon footprint;

- Installation of Smart Meters across all sites
- Use of an electric vehicle for courier runs across sites
- Since the pandemic the use of Video Conferencing has become more widely used for support departments to operate a more hybrid working practice with several staff still working 98% of the time from home, further reducing carbon emissions on travel to and from the office. The use of teams has resulted in significantly less printing of documents which are shared electronically, and the need for travel between sites for meetings
- Installation of LED and energy efficient lighting whenever any lights are replaced, or area refurbished
- Installation of 4 new boiler systems to improve efficiency
- Tyne Coast College Westoe campus electricity is supplied by Drax - one of the largest sustainable energy providers who are working towards carbon negative supply by 2030
- Policy of using local contractors for maintenance
- All non-food waste is put in clear bags and these are processed through a recycling centre, as well as dedicated recycling bins. This significantly reduces waste to landfill
- Closure of the Queen Alexandra Sixth Form College and amalgamation of students onto existing areas of the Coast Road Campus has eliminated much of utility usage, except for a small volume essential for maintenance systems. On top of this, waste associated with travel between this site and the Tyne Metropolitan campus, replication of systems, duplication of catering, printing of notices and signage, equipment, furniture have been eliminated



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- The college is currently awaiting the outcome of two bids for new campus sites and buildings in Wallsend and South Shields. Both sites would be built / fitted out to minimise the impact on the environment and reduce the carbon footprint of college activities. The BREEAM assessment framework can be considered during the design phase, if successful.