Streamlined energy and carbon reporting for Tameside College

The Streamlined Energy and Carbon Reporting framework (SECR) is a package of regulations published by the Department for Business, Energy and Industrial Strategy (BEIS) that came into effect from 01 April 2019.

INTRODUCTION

Tameside College acknowledges its responsibility to environmental protection for the future and is committed to developing environmentally sustainable practices within College operations and future strategy planning.

The College is undergoing significant Estates development which encompasses the use of energy efficient and sustainable materials as well as responsible practices. Social inclusion has also been an important part of the planning and delivery of the College's Estates vison. Tameside College also works with its supply chain to promote and encourage this ethos throughout. The Estates strategy has been planned with consideration to future potential in order to minimise the need for further unnecessary works and materials whilst serving its purpose to the local communities.

This report expands on the College's commitments to Environmental Sustainability and the measures it has taken to improve efficiencies.

Part 1: Descriptive information

Name of the company	Tameside College
Description of the company	Further & Higher Education College
Chosen consolidation approach (equity share, operational control / financial control)	Operational Control
The reporting period covered	August 2022 – July 2023
The year chosen as base year	August 2018 – July 2019
Rationale for choosing the base year	The College has chosen a fixed base year at the early stages of Estates renovation which would see improvements to building conditions over a number of years. The College will reconsider its base year in the future after the development works have completed.

Part 2: Greenhouse gas emissions for the Current Year

Energy Consumption used to calculate emissions (kWh)	Last Financial Year Aug 2022 - July 2023	Base Year Aug 2018 - July 2019
Gas (KWh)	2,997,076	3,388,371
Electricity (KWh)	1,768,705	2,277,706
Transport fuel (miles)	17,679	52,961
Emissions in Metric Tonnes CO2e		
Scope 1		
Gas consumed	551.07	623.02
Owned Transport	4.79	14.36
Scope 2		
Purchased Electricity	412.36	531.02
Scope 3		
Business travel in employee owned vehicles	7.89	15.82
Total gross emissions in metric tonnes CO2e	**976.11**	**1,184.22**
FTE of Staff	**403.09**	**355.72**
Intensity ratio: Tonnes CO2e per FTE of staff	**2.42**	**3.33**

Part 3:

3.1 Quantification and Reporting Methodology

The report has been prepared under the 2019 HM Government Environmental Reporting Guidelines and calculations have been carried out using the UK Government GHG Conversion Factors for Company Reporting.

3.2 Intensity measurement

The College has chosen to report it's intensity measurement as the ratio of total gross emissions in metric tonnes CO2e per full-time equivalent staff member. This allows for ease of comparisons over the years and identification of positive progress.

3.2 Measures taken to improve energy efficiency

The College will endeavour wherever possible and practical to reduce its impact on the environment and will actively promote the implementation of environmentally friendly policies and practices in all areas of activity. It will aim to introduce a corporate culture whereby environmental issues are considered equally with all other aspects of the College's business. We will incorporate sustainability within phase 3 and aim to meet our Bream targets to reduce our carbon foot print as we move forward and to install efficient systems reducing gas and electricity usage for our campuses. We acknowledge our responsibility to protect, conserve and improve the environment. We will seek to minimise the effect of the College on the environment by adopting environmentally responsible policies and practices throughout our operations, in so far as resource constraints allow us to do so. The purpose of the policy is to ensure a pro-active and co-ordinated approach to the management, maintenance and review of environmental standards

Day to Day:

At Tameside College we are committed to sustainability, and we are always trying to increase ways in which we can reduce our carbon footprint. We currently use a waste provider who takes our waste away and separates it to ensure all recyclable material is appropriate handled. We also ensure that all waste oils, wood, metal and coolants are disposed of in an environmentally friendly way. Our catering contractor has most recently made a step forward with sustainability by removing all single use plastics from their ranges and have opted for a more environmentally friendly and recyclable food box & cutlery range. Our newly appointed cleaning contractor have the status of a Carbon neutral through their practices and commitments to being sustainable. The college in recent years has adapted a fix rather than replace policy for their servicing of equipment requirements, reducing the potential for waste products from constantly renewing equipment in turn also saving money for the college. The estates department monitor the buildings heating systems and adjust the heating time clocks to make sure we are receiving the correct usage of heat and power. The college also promotes the cycle to work scheme and also encourages staff to travel on public transport and to car share to work. The College has also invested in 2 e-bikes to use as a more environmentally friendly option to transport goods between sites. Our newly refurbished brickwork building has a state of the art extraction system which recycles our sand and cement for reuse. We have also established a sustainability group to discuss our best practice and to work towards Net Zero.

Planned Maintenance Programme:

When undertaking our PMP – Planned Maintenance Programme we take into consideration the impact of different materials and fittings. For example, we have begun to replace out CAT 2 light fittings to their LED equivalent, the new LED fittings have a low power usage and are more sustainable. The college previously would recycle furniture when it would come to the end of its life cycle, but now instead we use an upcycling company to re-upholster and renew our old furniture to give it a new lease of life. As part of our planned maintenance, we are replacing wet systems with electrical VRF systems, which are more efficient, cost effective and reduces the reliance upon for carbon fuels.

New Construction:

The college has been very busy in the last 10 years creating new buildings and impeccable work spaces for staff and students. Whilst planning these projects sustainability has been taken into consideration by ensuring that BREAM of at least a good or higher for our new buildings. Cavity wall insulation and Solar panels have been installed on two of our newer buildings as a two pronged attack to make our buildings more sustainable by retaining heat and harnessing solar energy. We also have installed energy efficient boilers & VRF systems into our buildings and teaching spaces to ensure for comfort for teachers and students but also lowering our power usage. We also use presence detectors in corridors and classrooms for when lights are left on by accident they override and turn the lights off saving them from consuming more power than required. In the toilet areas we aim to save as much water as possible and we do this by installing systemisers and no concussive taps, both of these allow for the water wastage to be reduced. We have also been planning for the future by installing electrical vehicle charging stations.

The College are considering the installation of air source heat pump technology into one of our newer buildings which currently runs off two traditional gas boiler which are almost 10 years old. By doing this, we will be making one of our campuses a net zero facility.

In addition, we are now undertaking the building of our new automotive centre, which is being built as BREAM good. With that, the building has been sourced sustainably with its materials efficiently with its boilers and responsibly by the planting and increasing of greenspace around the building as a mixture of wildflowers, grass and additional trees. This building also comes complete with 4 EV charging stations for electric vehicles, this will also support the departments sustainable teaching in EV technology.