

Streamlined Energy & Carbon Report

Introduction

In line with the Guidance for Streamlined Energy and Carbon reporting, as set out in the College Accounts Direction, Suffolk New College can report the figures as set out below. These have been calculated based on UK Government CHG factors for company reporting.

This report details the operational energy usage of the Suffolk New College Corporation and resultant emissions for the academic year 1 August 2020 to 31 July 2021, for which Suffolk New College is responsible. This report therefore covers all energy usage for which the College is financially responsible and covers all energy usage in our buildings, processes and all fuel consumed in vehicles in delivery of the College's core activities of teaching and learning.

The Corporation is committed to using energy efficiently to minimise environmental impact and to contribute towards global sustainability.

Our efforts to continually reduce energy wastage will also show our commitment to our students, our employees, our community and the environment.

Energy Efficiency Actions

We have identified our major energy consumers in the organisation; identifying risks that may prevent us from reducing energy consumption and opportunities to improve energy efficiency.

Our energy consultants, Vertas Group Ltd, closely monitor our energy consumption, including half-hourly data, and report any substantial deviation from baseline directly to the College.

We actively communicate to students and staff the benefits of reducing energy and environmental wastage and we aim to motivate and empower them by encouraging ownership of the scheme through the sharing of expertise and experience.

In the past year, the following actions have been taken:

- Progression of program to change lighting from conventional lighting to LED.
- BMS (Building Management System) upgrade to enable more effective management of building energy use.
- Progression of annual Display Energy Certificate.
- Extensive replacement of facility boilers, valves and thermostats to more effectively manage energy usage.
- Replacement of Greenhouse air heating system to more effectively manage energy usage

Methodology

All source data is from supplier invoicing and finance records. These sources are subject to regular verification and audit, both internal and external.

The sites included are where the College pays the energy bills, namely Ipswich, Suffolk Rural and Halesworth. Leiston is excluded, as the College pays an all-encompassing service charge and is unable to split out any utility bills. The comparison for 19/20 only includes Suffolk Rural from the date of the merger (01/01/2020 – formerly known as the Otley Campus of Easton and Otley College), and excludes Halesworth, as this site opened with effect from September 2020.

Emissions factors are sourced from the Government reporting guidelines. We have estimated that the College has paid an average of £2 per mile for taxi fares. We have also estimated that the fuel in rental vehicles, business mileage claims and taxis were used at a rate of 1 gallon per 50 miles. We have then calculated emissions based on an estimate that this fuel was 50% unleaded and 50% diesel.

The intensity ratio figure has been calculated by taking the total headcount of all staff that were employed by Suffolk New College as at 31 July 2021, and were reported in the year-end accounts at that time.

Supporting Source Data

Scope	Fuel	Consumption	Emissions CO2e (metric tonnes) 2020/21	Emissions CO2e (metric tonnes) 2019/20	Increase / (Decrease) over levels for 2019/20
1 - Direct	Gas	2,943,167 kWh	539.07	352.09	186.98
	Gas Oil	6,476 Litres	17.86	2.76	15.10
	Propane	64,797 Litres	100.02	28.17	71.85
	Kerosene	43,133 Litres	136.96	45.37	91.59
	Transport Fuel	2,900 Litres	7.29	7.64	(0.35)
	Fuel Card (Diesel)	1,153 Litres	2.9	1.13	1.77
	Fuel Card (Unleaded)	707 Litres	1.55	0.58	0.97
Total Scope 1 (Direct)			805.65	437.74	367.91
2 - Indirect	Electricity	3,388,931 kWh	719.57	623.78	95.79
Total Scope 2 (Indirect)			719.57	623.78	95.79
3 - Additional Indirect	Business Mileage	58,782.1 Miles	16.21	22.89	(6.68)
	Fuel in Rental Vehicles	132 Miles	0.04	0.82	(0.78)
	Taxis	£1,358.76	0.37	1.27	(0.90)
Total Scope 3 - Additional Indirect			16.62	24.98	(8.36)
TOTAL GROSS EMISSIONS (in metric tonnes)			1541.84	1086.5	455.34
Intensity Ratio Based on staff as at 31 July 2021 – 603 (2020 – 549)			2.56	1.98	0.58