

Streamlined Energy & Carbon Reporting (SECR)

**Fareham College
year ending 31 July 2023**



Fareham College

Streamlined Energy & Carbon Reporting

1st August 2022 – 31st July 2023 Summary

Overall Carbon Intensity

1.73 tCO₂e per FTE

YOY -3.48%

520.02 tCO₂e

tCO₂e YOY 0.10%

Carbon & Consumption

YOY = Year-on-year change

Gas & Other Fuels

1,421,894 kWh

260.11 tCO₂e

tCO₂e YOY: -1.72%

Electricity

1,138,564 kWh

235.77 tCO₂e

YOY: -3.91%

Transport

107,361 kWh

24.15 tCO₂e

tCO₂e YOY: -13.61%

Carbon Intensity Metric

FTE = Full Time Equivalent employees

0.86 tCO₂e per FTE

YOY: -4.98%

0.78 tCO₂e per FTE

YOY: -0.46%

0.08 tCO₂e per FTE

YOY: -16.49%

Overall

1.73 tCO₂e per FTE Carbon:

520.02 tCO₂e Consumption:

2,667,818 kWh

Energy Saving Projects

Implemented

- Installation of solar PV array on the newly converted Energy Hub.



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Executive Summary

Energy usage, associated emissions, energy efficiency actions and energy performance for Fareham College.



Streamlined Energy & Carbon Reporting

This report summarises our energy usage, associated emissions, energy efficiency actions and energy performance under the government policy Streamlined Energy & Carbon Reporting (SECR), as implemented by the Companies (Directors' Report) and Limited Liability Partnerships (Energy and Carbon Report) Regulations 2018.

It also summarises, in the appendix, the methodologies utilised for all calculations related to the elements reported under Energy & Carbon.

Fareham College are a UK incorporated business. Under the new SECR legislation we are mandated to include energy consumption, emissions, intensity metrics and all energy efficiency improvements implemented in our most recent financial year. An operational boundary has been applied for the purposes of the reporting

2% of consumption data used for SECR has been required to be estimated to achieve 100% data coverage.

Fareham College Scope 1 and 3 direct emissions (combustion of natural gas and transportation fuels) for this year of reporting are 284.25 tCO₂e, resulting from the direct combustion of 1,529,255 kWh of fuel. This represents a carbon reduction of 2.85% from last year.

Scope 2 indirect emissions (purchased electricity) for this year of reporting are 235.70 tCO₂e, resulting from the consumption of 1,138,564kWh of electricity purchased and consumed in day-to-day business operations.

Our operations have an intensity metric of 1.73 tCO₂e per FTE for this reporting year.

This represents a reduction in operational carbon intensity of 3.48% from our previous reporting year.

Organisational Structure and Qualification



Fareham College

Fareham College is the parent company of the Fareham College corporate group.

We are required to comply with SECR, as we exceed the qualification thresholds of two of the three criteria (employee numbers, turnover, or balance sheet total).

Data Quality and Completeness



Invoices have been entered into a fully managed energy database up to 31st July 2023.

Data Completeness

All Fareham College’s electricity and gas invoices have been entered into a fully managed energy database up to 31st July 2023, and data quality checks have been carried out for data completeness and accuracy. All transport information has also been entered into the energy database up to 31st July 2023.

There were a number of instances, equating to 2% of the total reported consumption, where it was necessary to calculate some estimated consumption to achieve 100% data coverage. Methodology of these estimation techniques is detailed in the appendix.

Intensity Metric

An intensity metric of tCO₂e per FTE has been applied for our annual total emissions. The methodology of the intensity metric calculations are detailed in the appendix, and results of this analysis is as follows:

Intensity Metric	2022/23 Intensity Metric	2021/22 Intensity Metric
tCO ₂ e / FTE	1.73	1.79

Annual Reporting Figures

The total consumption and emissions figures for energy supplies reportable by Fareham College



Consumption (kWh) and Greenhouse Gas emissions (tCO₂e) Totals

The following figures show the consumption and associated emissions for this reporting year for our operations, with figures from the previous reporting period included for comparison.

Scope 1 consumption and emissions relate to direct combustion of natural gas, and fuels utilised for transportation operations, such as company vehicle fleets.

Scope 2 consumption and emissions relate to indirect emissions relating to the consumption of purchased electricity in day-to-day business operations.

Scope 3 consumption and emissions relate to emissions resulting from sources not directly owned by us. This relates to grey fleet (business travel undertaken in employee-owned vehicles) only.

Totals

The total consumption (kWh) figures for reportable energy supplies are as follows:

Utility and Scope	2022/22 Consumption (kWh)	2021/21 Consumption (kWh)
Grid-Supplied Electricity (Scope 2)	1,138,564	1,173,319
Gaseous and other fuels (Scope 1)	1,421,894	1,449,778
Transportation (Scope 1)	39,974	31,869
Transportation (Scope 3)	67,567	89,186
Total	2,667,818	2,744,162

The total emission (tCO₂e) figures for reportable energy supplies are as follows. Conversion factors utilised in these calculations are detailed in the appendix:

Utility and Scope	2022/23 Consumption (tCO ₂ e)	2021/22 Consumption (tCO ₂ e)
Grid-Supplied Electricity (Scope 2)	235.77	226.90
Gaseous and other fuels (Scope 1)	260.11	264.65
Transportation (Scope 1)	8.95	7.38
Transportation (Scope 3)	15.20	20.57
Total	520.02	519.50

Energy Efficiency Improvements

Fareham College are committed to year-on-year improvements in their operational energy efficiency.



Energy Efficiency Improvements

We are committed to year-on-year improvements in our operational energy efficiency. As such, a register of energy efficiency measures available to us has been compiled, with a view to implementing these measures in the next 5 years.

Measures ongoing and undertaken through 2023/24:

Installation of solar PV array on the newly converted Energy Hub.
All capital and estates projects to have a energy efficient approach.

Compliance Responsibility

This report has been prepared for
Fareham College by Inspired Energy PLC



Inspired Energy This report has been prepared by Inspired Energy PLC for Fareham College by means of interpreting the Companies (Directors' Report) and Limited Liability Partnerships (Energy and Carbon Report) Regulations 2018 as they apply to information supplied by Fareham College and its energy suppliers. Fareham College's registered CEO and COO are ultimately responsible for complying with the Regulations. They must be satisfied that to the best of their knowledge all relevant information concerning Fareham College's organisation structure, properties, activities and energy supplies has been provided to Inspired Energy. This includes details of any complex ownership structures (e.g. private equity funds, franchises for private finance initiatives) and energy generated on-site (including CHP), or supplied to/from a third party (i.e. not a licenced energy supplier or a landlord/tenant).

Appendix

Reporting Methodology

Scope 1, 2 and 3 consumption and CO₂e emissions data has been calculated in line with the 2019 UK Government environmental reporting guidance. Emissions Factor Database 2022 version 1 has been used, utilising the published kWh gross calorific value (CV) and kgCO₂e emissions factors relevant for reporting period 01/08/2022– 31/07/2023.

Estimations undertaken to cover missing billing periods for properties directly invoiced to Fareham College were calculated on a kWh/day pro-rata basis at meter level. These estimations equated to 2% of reported consumption.

For properties where Fareham College is indirectly responsible for utilities (i.e. via a landlord or service charge), an average consumption for properties with similar operations was calculated at meter level and applied to the properties with no available data.

This full year estimation was applied to one electricity supply.

Intensity metrics have been calculated using total tCO₂e figures and the selected performance indicator agreed with Fareham College for the relevant report period:

- **Full time equivalents (FTE) in 2022/23 (2021/22)** **301 (282)**



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