

Annual Energy Use

Greenhouse gas emissions and energy use data for the period 1 August 2022 - 31 July 2023 (Comparison 1 August - 31 July 2022)

Greenhouse gas emissions and energy use data for the period 1 August 2022 to 31 July 2023	2022/23	2021/22
Gas	668,546	715,600
Electricity	478,499	492,697
Transport fuel	-	-
Total energy consumption used to calculate emissions (kWh)	1,147,045	1,208,296

Scope 1 emissions in metric tonnes CO ₂ e	2022/23	2021/22
Gas consumption	122.05	130.63
Owned transport	-	-
Total scope 1	122.05	130.63

Scope 2 emissions in metric tonnes CO ₂ e	2022/23	2021/22
Purchased electricity	99.08	95.28

Scope 3 emissions in metric tonnes CO ₂ e	2022/23	2021/22
Business travel in employee owned vehicles	-	0.08

Total gross emissions in metric tonnes CO ₂ e	2022/23	2020/21
Total	221.13	225.90

Intensity Ratio	2022/23	2020/21
Tonnes CO ₂ e per member of staff	1.63	1.66

How we calculate our energy use

Gas - total kWh(kilowatt- hours) used for the year, taken from gas bills for the College site	668,546.00	0.18256	(2023 fuels, natural gas conversion factor CV to kg Co ₂ e)	122,049.76
Electricity - total kWh(kilowatt- hours) used for the year, taken from electricity bills for the College site	478,499.30	0.207074	(2023 UK electricity conversion factor CV to kg Co ₂ e)	99,084.76
Transport -Mini-bus :356 miles in the year	-	-	(2023 managed assets vehicles, vans class 2)	-
Transport -total mileage for petrol reimbursed from staff claims	-	0.26902	(2023 managed assets vehicles, Cars (by size))	-
Total				221,134.52
Intensity ratio - Emissions data(tCO ₂ e) compared with an appropriate business activity (staff numbers)				1.63
Number of staff				136

Quantification and Reporting Methodology

We have followed the 2019 HM Government Environmental Reporting Guidelines. We have also used the GHG reporting Protocol - Corporate Standard and have used the 2022 UK Government's Conversion Factors for Company Reporting.

Measures taken to improve energy efficiency

Buildings

The upgrade to our old Boiler House which included replacing the boiler plant, pipework, equipment & replacing the pumps has now been fully completed. This has resulted in improved heating efficiency as well as reduction in fuel consumption & maintenance costs.

We have continued & now finished the upgrade to all lighting to LED's where feasible.

Our New Business Hub was opened in September 2022 & is fully BREEAM compliant.

Feasibility studies are ongoing to assess whether we have suitable roof space for Solar panels which will tie into roof replacements which we are hoping to implement. This has formed part of a resubmission of our recent CIF bid for roof works.