

Streamlined Energy & Carbon Reporting 2022/23

Cirencester Kingshill School

Energy Background

Not provided

This methodology follows the [GHG Reporting Protocol](#) and uses the 2023 [Government emission conversion factors for greenhouse gas company reporting](#).

Energy Source	Consumption	Scope	Emissions calculation
Gas – total kWh (kilowatt-hours) used for the year	635,005 kWh (gross CV (calorific value))	Scope 1	$635,005 \text{ kWh} * 0.18293$ (2023 Fuels - Natural Gas conversion factor gross CV to kg CO ₂ e) / 1000 = 116.161 tCO₂e
Electricity – total kWh used for the year	385,640 kWh	Scope 2	$385,640 \text{ kWh} * 0.20707$ (2023 UK Electricity conversion factor to kgCO ₂ e) / 1000 = 79.856 tCO₂e
		Scope 3	$385,640 \text{ kWh} * 0.01792$ (2023 Transmission and Distribution - UK electricity conversion factor to kgCO ₂ e) / 1000 = 6.909 tCO₂e
Owned Transport None	0 miles = 0 kWh	Scope 1	0 miles = 0.000 tCO₂e
Reimbursed Transport – no mileage reimbursed to staff	0 miles = 0 kWh	Scope 3	0 miles = 0.000 tCO₂e
Total	1,020,645 kWh		202.926 tCO₂e
Intensity ratio	Emissions data (tCO ₂ e) compared with an appropriate business activity (pupil numbers as per Autumn census)		$202.926 \text{ tCO}_2\text{e} / 877 \text{ pupils}$ = 0.231 tCO₂e per pupil

Disclosure of Information

UK Greenhouse gas emissions and energy use data for the period 1 September 2022 to 31 August 2023

Current reporting year 2022/23

Comparison reporting year 2021/22 (figures are for illustrative purposes)

Energy consumption used to calculate emissions (kWh)	1,020,645	1,192,815
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Scope 1 emissions in metric tonnes CO₂e

Gas consumption	116.161	142.425
Owned transport	0.000	0.000
Total Scope 1	116.161	142.425

Scope 2 emissions in metric tonnes CO₂e

Purchased electricity	79.856	79.783
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Scope 3 emissions in metric tonnes CO₂e

Business travel in employee-owned vehicles	0.000	0.000
Purchased electricity (transmission and distribution)	6.909	7.298

Total gross emissions in metric tonnes CO ₂ e	202.926	229.507
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Intensity ratio Tonnes CO ₂ e per pupil	0.231	0.262
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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 2023 UK Government's Conversion Factors for Company Reporting.

Intensity measurement

The chosen intensity measurement ratio is total gross emissions in metric tonnes CO₂e per pupil, the recommended ratio for the sector.

Measures taken to improve energy efficiency

Phased replacement of lights with LED; replacement of walk in chiller in main kitchen with more energy efficient model

END OF REPORT