



Carbon Report 2024-25

Below is a table showing the emissions calculations for different energy sources (gas, electricity, and transport) for the academic year 2024-25. The total energy consumption and emissions are displayed and there is also a calculation for emissions per member of staff (FTE).

Energy Source	Consumption	Scope	Emissions Calculation
Gas – total kWh (kilowatt-hours) used for the year, taken from gas bills for each site	3,360,612 kWh (Gross Calorific Value)	Scope 1	$3,360,612 \text{ kWh} \times 0.184$ (2025 fuels, natural gas conversion factor, gross CV to kg CO ₂ e) = 618,353 kgCO ₂ e = 618.4 tCO₂e
Electricity – total kWh used for the year, taken from the electricity bills for each site	1,832,770 kWh	Scope 2	$1,832,770 \text{ kWh} \times 0.193$ (2025 UK electricity conversion factor to kgCO ₂ e) = 353,725 kgCO ₂ e = 353.7 tCO₂e
Transport – used in lieu of passenger vehicles	All fleet fuel purchases (incl. mini-buses): 2,417 litres (diesel)	Scope 1	$2,417 \text{ litres} \times 2.56$ conversion factor = 6,188 kgCO ₂ e = 6.2 tCO₂e
Transport – total mileage for business travel reimbursed from staff claims	76,229 miles	Scope 3	$76,229 \text{ miles} \times 0.28053$ (2022 managed assets vehicles, average car conversion factor to kgCO ₂ e, petrol) = 21,384 kgCO ₂ e = 21.4 tCO₂e
Total			999.7 tCO₂e
Intensity ratio - Emissions data (tCO ₂ e) compared with an appropriate business activity (staff numbers)			$999.7 \text{ tCO}_2\text{e} / 550 \text{ members of staff}$ = 1.82 tCO₂e per staff member