



Carbon Report 2023-24

Below is a table showing the emissions calculations for different energy sources (gas, electricity, and transport) for the academic year 2023-24. 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	3,345,343 kWh (Gross CV (calorific value))	Scope 1	3,345,343 kWh * 0.1829 (2024 fuels, natural gas conversion factor, gross CV to kg CO ₂ e) = 611,863 kgCO ₂ e = 611.9 tCO₂e
Electricity – total kWh used for the year, taken from the electricity bills for each site	1,895,492 kWh	Scope 2	1,895,492 kWh * 0.203 (2024 UK electricity conversion factor to kgCO ₂ e) = 384,785 1 kgCO ₂ e = 384.8 tCO₂e
Transport – used in lieu of passenger vehicles	All fleet fuel purchases (incl. mini-buses): 2,985 litres (diesel)	Scope 1	2,985 litres * 2.56 conversion factor = 7,641.6 kgCO ₂ e = 7.6 tCO₂e
Transport – total mileage for business travel reimbursed from staff claims	102,476 miles	Scope 3	102,476 miles * 0.28053 (2022 managed assets vehicles, average car conversion factor to kgCO ₂ e, petrol) = 28,748 kgCO ₂ e = 28.7 tCO₂e
Total			1,033 tCO₂e
Intensity ratio - Emissions data (tCO ₂ e) compared with an appropriate business activity (staff numbers)			1,033 tCO ₂ e / 550 members of staff = 1.88 tCO₂e per staff member