

Mid-year energy and emissions report

- As listed in Table 1, Royal Holloway emitted 3,707 tCO₂e (tonnes of carbon dioxide equivalent) of scope 1 and 2 location-based emissions during Quarter 1 and Quarter 2 2023/24. Total scope 1 and 2 location-based emissions also decreased by 4.7% during this period.
- If using the market-based method, total scope 1 and 2 emissions accounted for 2,091 tCO₂e and resulted in a -10.2% YoY.
- Both natural gas and electricity consumption declined within the last 12 months, contributing to a negative growth of -10.3% and -3.4%, respectively.
- It should be noted that despite a drop in electricity consumption, associated emissions went up by 3.4%. This is due to a larger change (+7% YoY) in the UK Government conversion factor which is used to derive GHG emissions.

Table 1: Energy use and GHG emissions for period 1 August 2023 to January 2024 vs prior year

Emissions source	Units	Q1 & Q2 2023/24	Q1 & Q2 2022/23	Change (%)
Scope 1 – Natural gas				
Total consumption	kWh	11,344,459	12,653,397	-10.3%
Total GHG emissions	tCO ₂ e	2,091	2,328	-10.2%
Scope 2 – Electricity				
Total consumption	kWh	7,802,484	8,079,873	-3.4%
Total GHG emissions - location	tCO ₂ e	1,616	1,562	3.4%
Total GHG emissions - market	tCO ₂ e	-	-	
Total Scope 1 & 2 – Natural gas and electricity				
Combined GHG emissions - location	tCO ₂ e	3,707	3,890	-4.7%
Combined GHG emissions - market	tCO ₂ e	2,091	2,328	-10.2%

Data source: Environmental Footprint Database; as at 5 April 2024

NB: May exclude some data that is only available annually

Q1: August – October; Q2: November – January