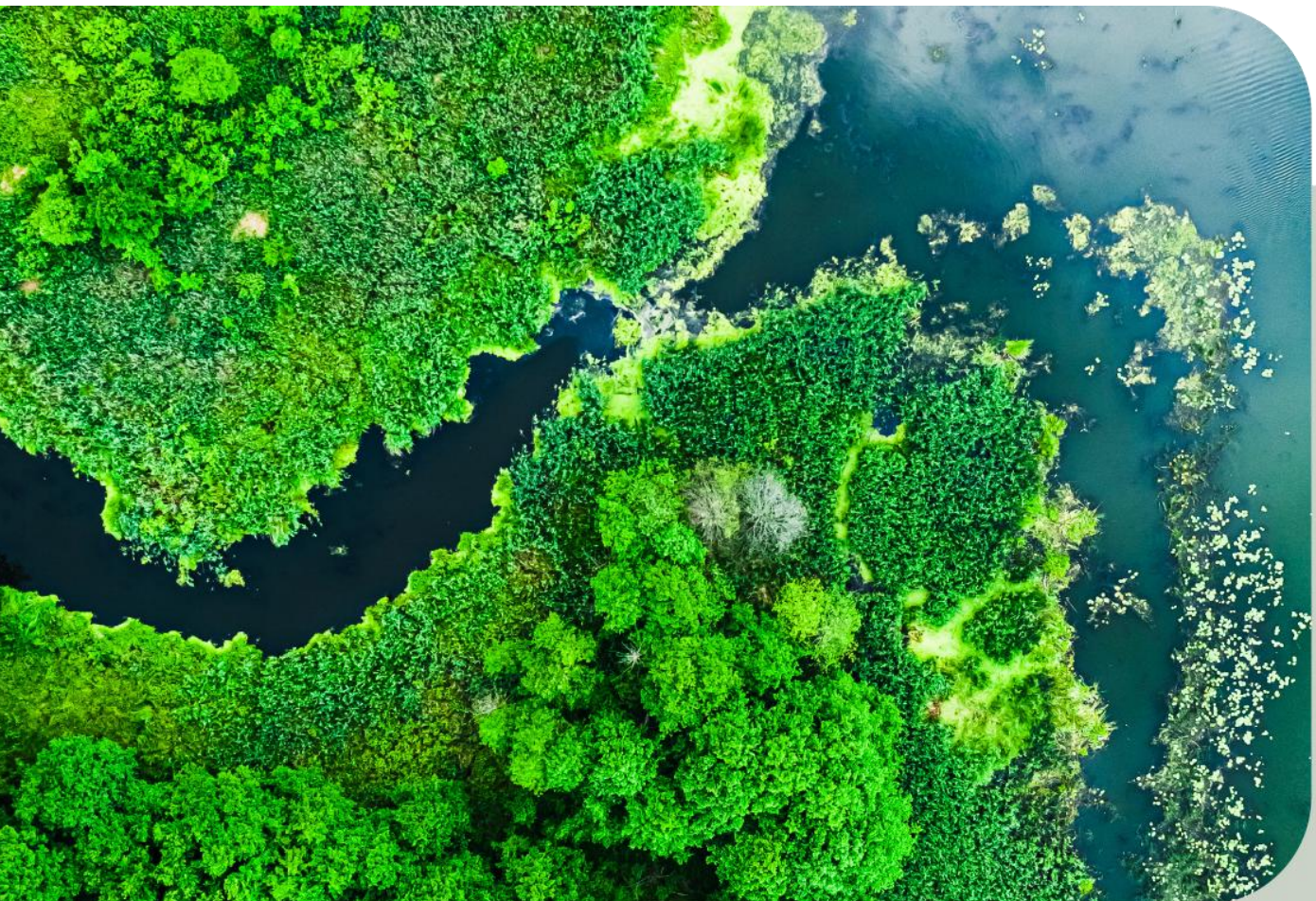


Corporate Emissions Report (2025/2026)

Welwyn Hatfield Council

30 July 2026, version 1.1



1 Document Control

Paper copies are valid only on the day they are printed. Contact the author if you are in any doubt about the accuracy of this document.

1.1 Revision History

Date	Version	Description	Author
30/07/2026	1.1	Minor Amendments	Ben Fisher
21/07/2026	1.0	Initial Report	Ben Fisher
21/07/2026	1.0	Final Report	Ben Fisher

1.2 Contact Information

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Checked by:	Tom McLeish	Energy Consultant	21/07/2026

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Estimates of costs and savings are based on site observations, published case studies, technical references, and professional experience. They should be regarded with caution, and recommendations are subject to detailed feasibility studies. Nothing in this report is intended to be or should be interpreted as an endorsement of, or recommendation for, any supplier, service, or product.



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2 Executive Summary

Local Authorities are required to monitor annual energy consumption and other sources of greenhouse gas emissions. Welwyn Hatfield Council (WHC) reports Scope 1, 2, and limited Scope 3 carbon emissions equivalent (CO₂e), using a period matching its financial year (1st April – 31st March). This report documents the 2025 - 2026 financial year's emissions performance.

Emissions have been calculated using activity data from multiple sources and applying appropriate emissions conversion factors published by DESNZ.

Total emissions, recorded in tonnes of Carbon Dioxide equivalent (CO₂e), are displayed in Table 1 below. Emissions have decreased by 327.5 tonnes of CO₂e this financial year compared to the previous. This is also reflected in the normalising factor comparisons, with lower emissions per each intensity metric. There has been a 34% reduction in total emissions since the baseline year.

	19/20	20/21	21/22	22/23	23/24	24/25	25/26
Total Emissions (tCO₂e)	2,507	2,000	1,405	2,072	2,126	1,973	1,646
Emissions per Household (tCO ₂ e/house)	0.0578	0.0461	0.0304	0.0450	0.0443	0.0390	-
Emissions per Turnover (tCO ₂ e/£m)	17.9	14.3	10.2	13.6	16.3	14.7	12.0
Emissions per FTE (tCO ₂ e/FTE)	-	-	4.04	5.84	5.81	4.75	3.98

Table 1 Welwyn Hatfield Council annual emissions and intensity measures

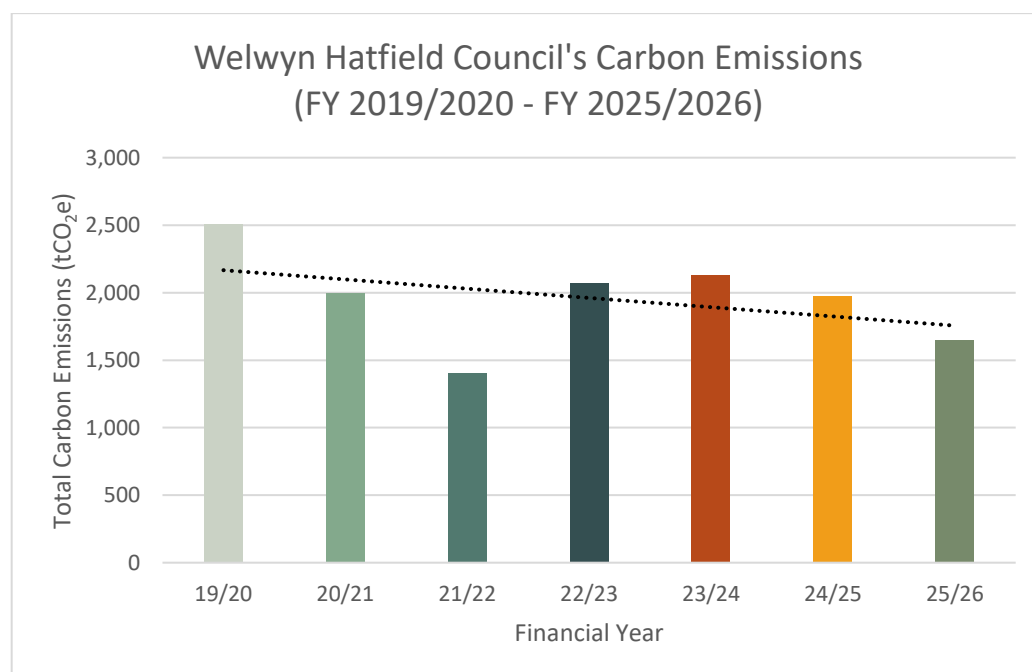


Figure 1 Welwyn Hatfield Council's Corporate Emissions FY 2019/2020 - FY 2025/26

3 Corporate Emissions Report Scope

This emissions report will cover elements of the following emission categories:

1. Scope 1 – All Direct Emissions from the activities of Welwyn Hatfield Council or under their control. Including fuel combustion on site such as gas boilers, fleet vehicles and air-conditioning leaks.
2. Scope 2 – Indirect Emissions from electricity purchased and used by Welwyn Hatfield Council. Also included are the generation or consumption of heat or steam. Emissions are created during the production of the energy and eventually used by Welwyn Hatfield Council.
3. Scope 3 – Other indirect emissions, such as the extraction and production of purchased materials and fuels, transport-related activities in vehicles not owned or controlled by the reporting entity, electricity-related activities not covered in Scope 2, outsourced activities, waste disposal, etc.

Scope 1:

- WHC Managed Natural Gas
- Company-Owned Vehicles

Scope 2:

- WHC Managed Electricity

Scope 3:

- Non-WHC Managed Electricity (Leisure, Estates Rented Properties, Outsourced Activities)
- Non-WHC Managed Natural Gas (Leisure, Estates Rented Properties, Outsourced Activities)
- Purchased Goods: Paper Usage
- Business Travel: Non-Company Owned Vehicles
- Business Travel: Public Transport – Taxi, Train and Tube Travel
- Transmission and Distribution (WHC Managed Electricity)

4 Methodology

TEAM were able to source data covering 01/04/2025 – 31/03/2026 from:

- Billed energy consumption data obtained from the TEAM Sigma platform
- Company mileage data provided by Kelly Murphy of Welwyn Hatfield Council
- Employee's mileage and expense data provided by Kelly Murphy of Welwyn Hatfield Council
- Amount of paper purchased throughout the 01/04/2025 – 31/03/2026 period provided by Kelly Murphy of Welwyn Hatfield Council
- Intensity metric figures provided by Kelly Murphy of Welwyn Hatfield Council

Using the most relevant conversion factors provided by DESNZ, which can be found in the 'Conversion factors 2025 (Full set advanced users)' document, TEAM were able to convert the usable data into tonnes of carbon dioxide equivalent (tonnes of CO₂e).

5 Results

TEAM have identified that between 01/04/2025 – 31/03/2026, Welwyn Hatfield Council emitted 1,645.5 tonnes of CO₂e.

01/04/2025 – 31/03/2026	Scope 1	Scope 2	Scope 3	Total
Tonnes of CO₂e	327.0	639.6	678.9	1,645.5
Percentage of total emissions	20%	39%	41%	100%

Table 2 Summary of results for the reporting year

In the previous reporting period, Welwyn Hatfield Council emitted 1,973.0 tonnes of CO₂e.

01/04/2024 – 31/03/2025	Scope 1	Scope 2	Scope 3	Total
Tonnes of CO₂e	608.1	710.2	654.7	1,973.0
Percentage of total emissions	31%	36%	33%	100%

Table 3 Summary of results for the previous year

This shows that Welwyn Hatfield Council decreased their emissions by 327.5 tonnes of CO₂e between this reporting year and the previous reporting year.

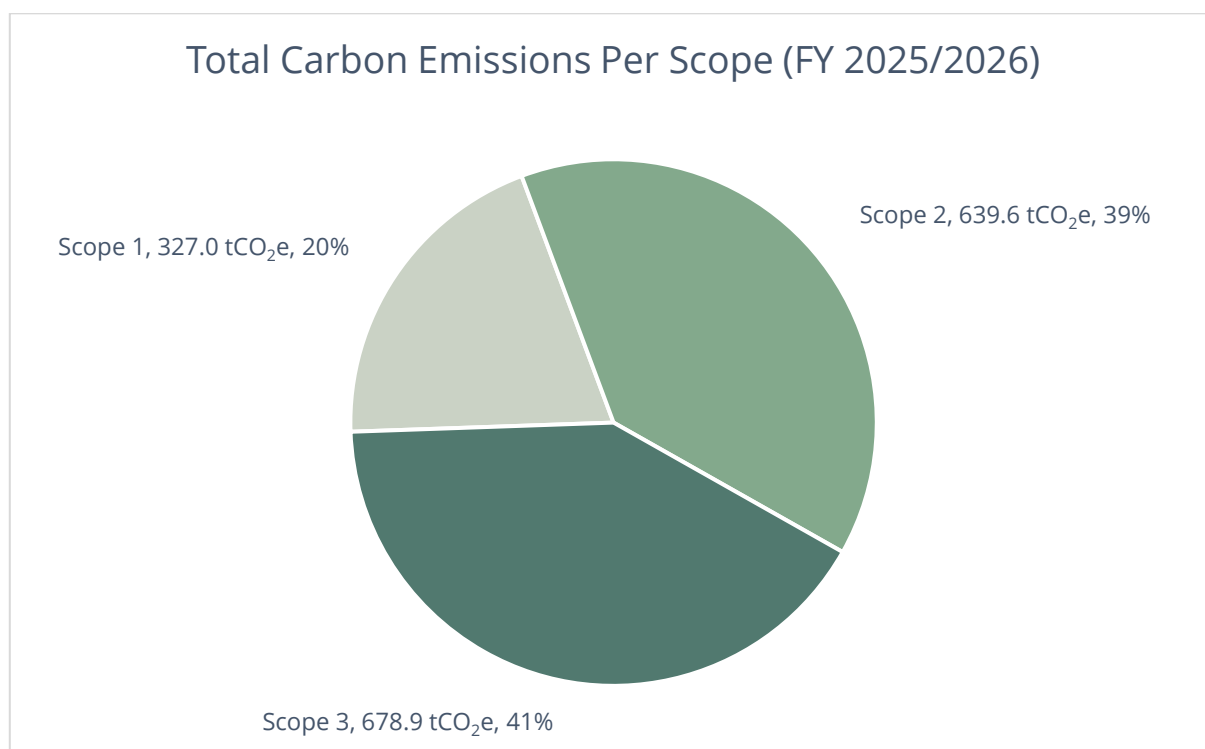


Figure 2 Carbon emissions split per scope (FY 2025/2026)

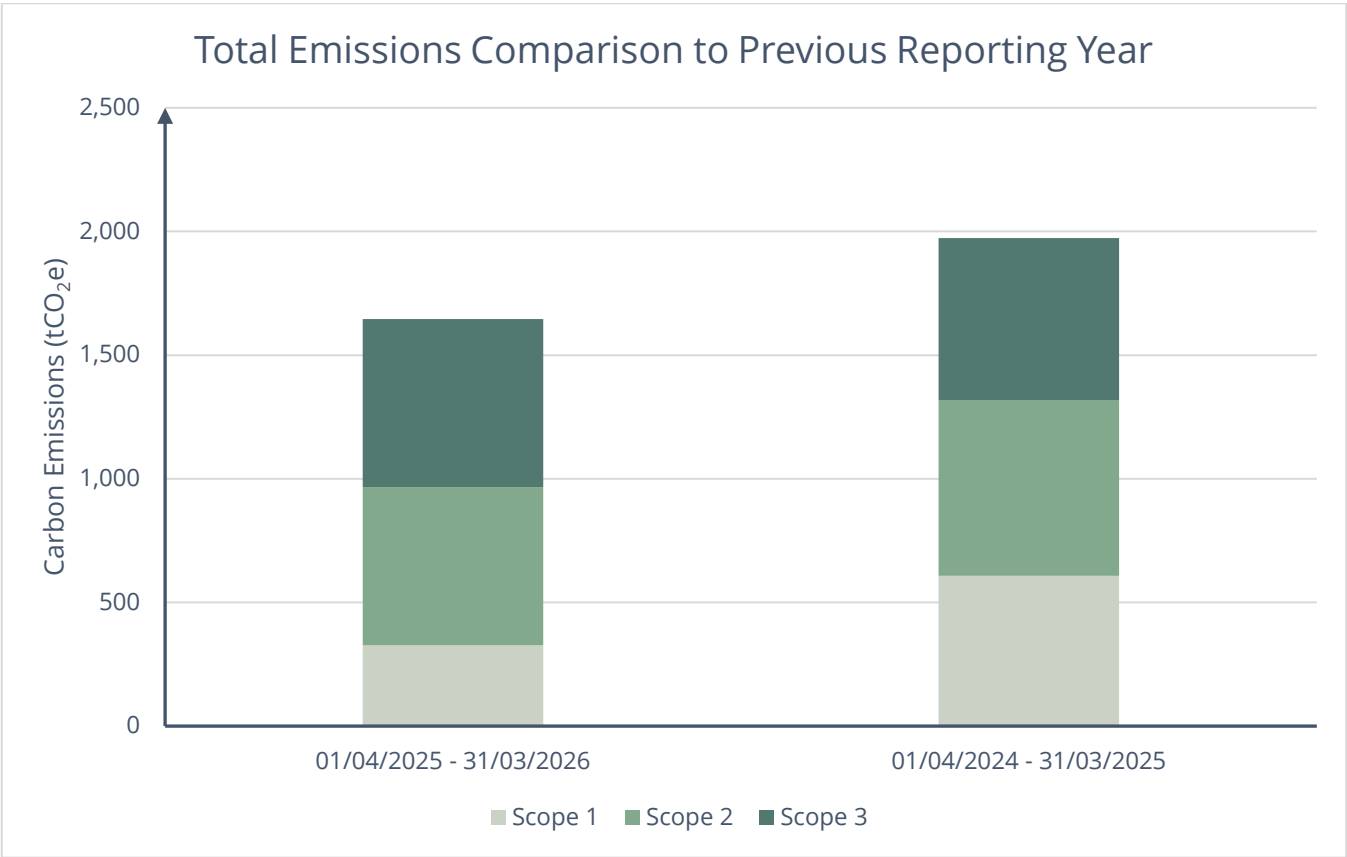


Figure 3 Carbon emissions split by scope comparing FY 2025/2026 to FY 2024/2025

Previous Year Comparison (tCO ₂ e)			
Scope	Current Year	Previous Year	Difference
Scope 1	327.0	608.1	-281.0
Scope 2	639.6	710.2	-70.6
Scope 3	678.9	654.7	24.2
Total	1,645.5	1,973.0	-327.5

Table 4 Total carbon emissions comparison comparing FY 2025/2026 to FY 2025/2024

Welwyn Hatfield Council's Carbon Emissions Split By Source (FY 2025/26)

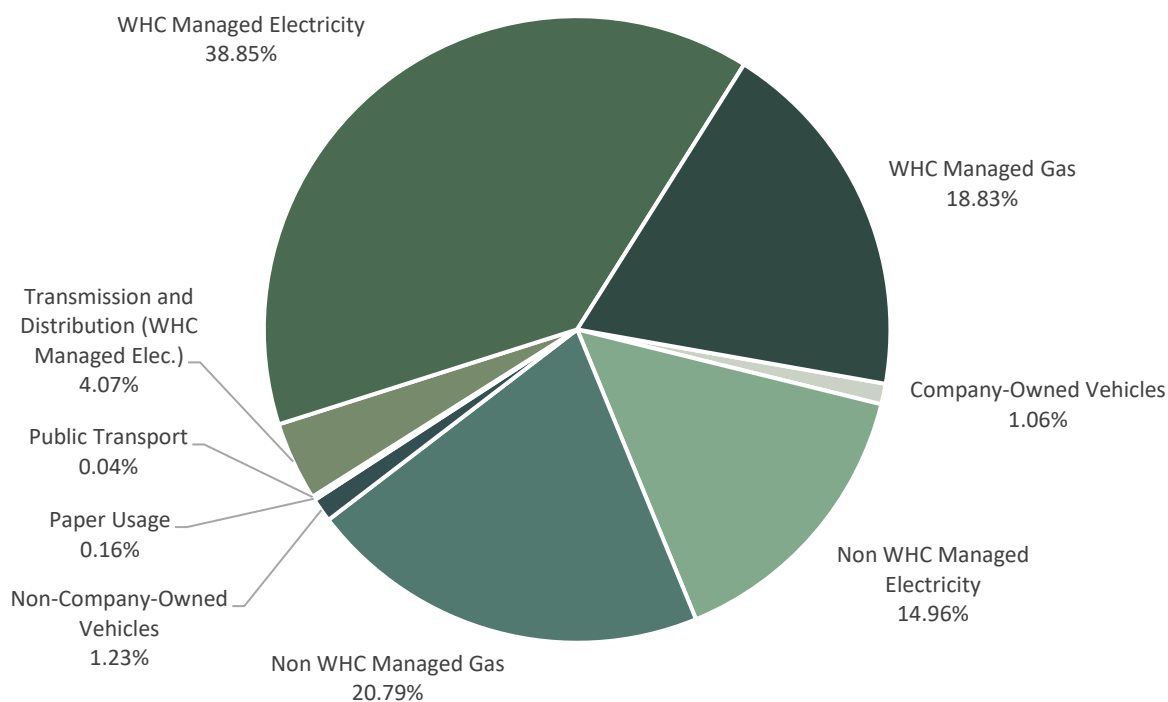


Figure 4 Welwyn Hatfield Council's Carbon Emissions Split By Source (FY 2025/26)

Electricity Consumption Per Site Group (FY 2025/26)

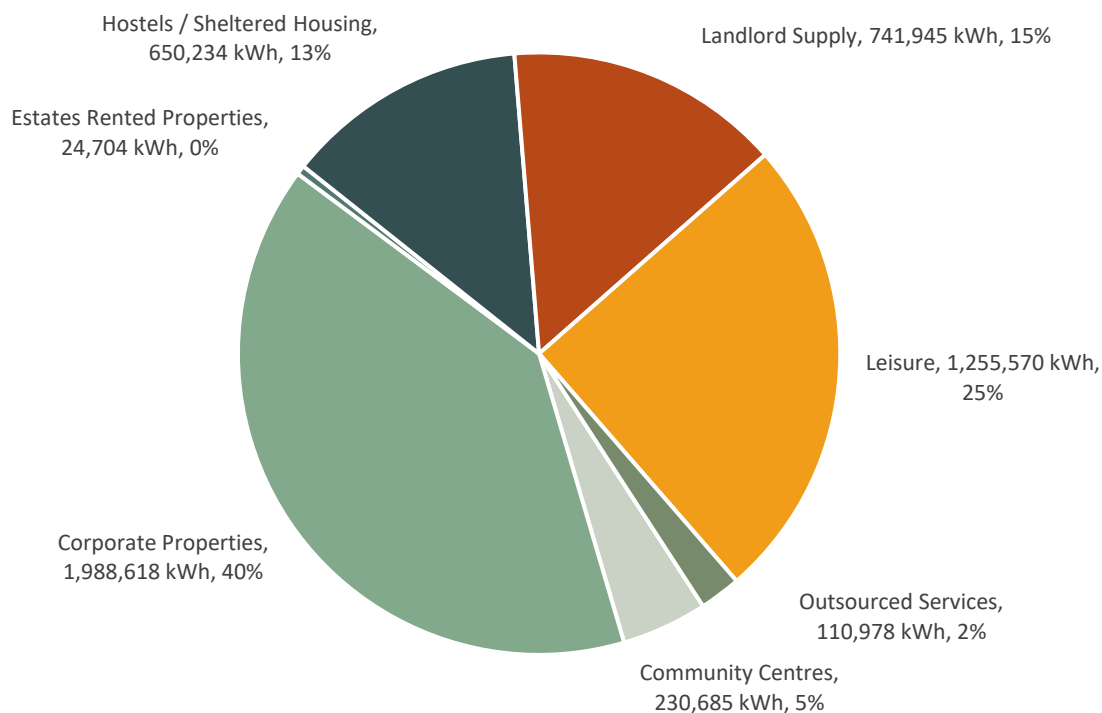


Figure 5 Electricity consumption per site group (FY 2025/2026)

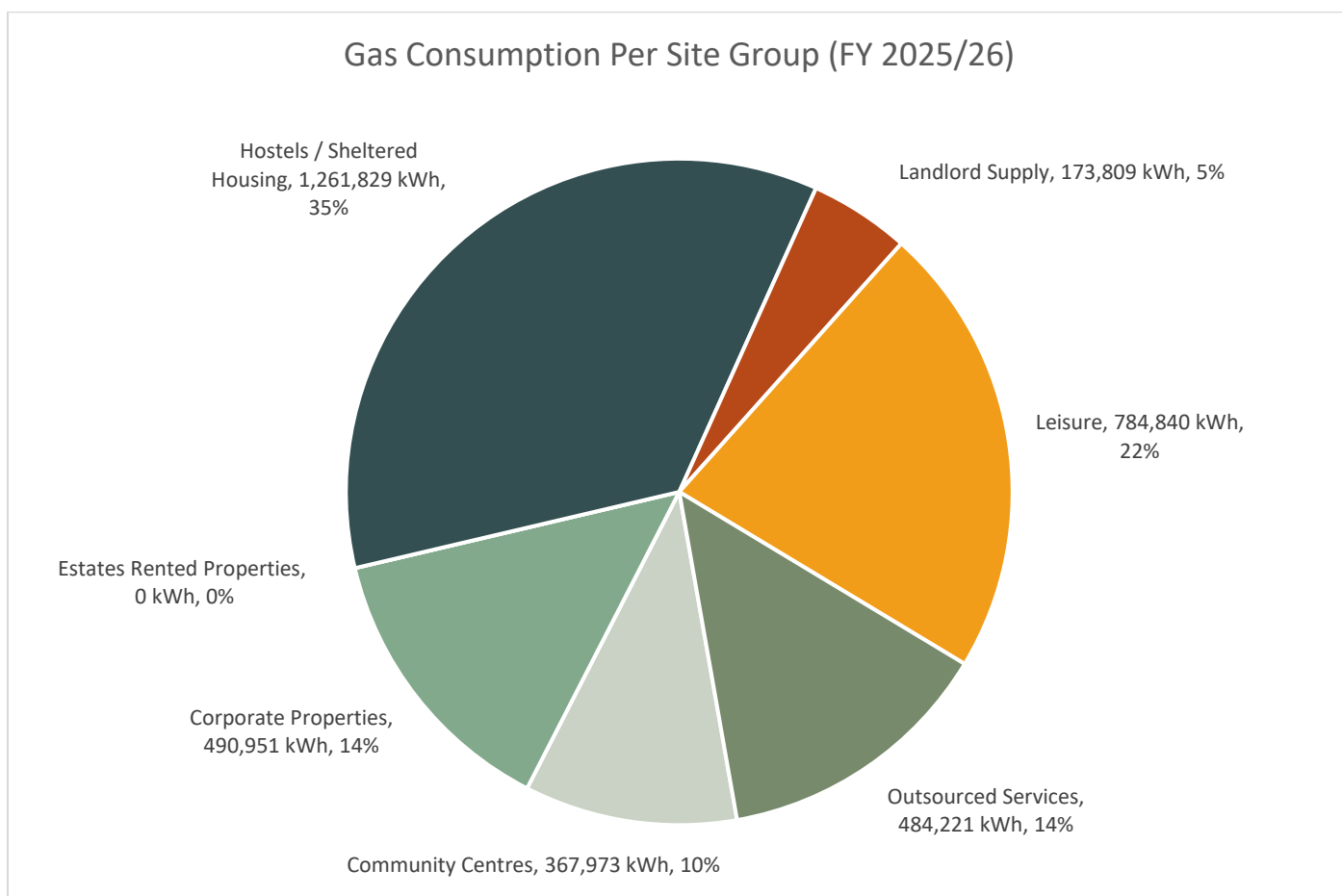


Figure 6 Gas consumption per site group (FY 2025/2026)

During the period of 01/04/2025 – 31/03/2026 Welwyn Hatfield Council emitted 1,645.5 tCO₂e, a decrease of 327.5 tCO₂e. Scope 1 emissions decreased by 281 tCO₂e, Scope 2 emissions decreased by 70.6 tCO₂e and Scope 3 emissions increased slightly by 24.2 tCO₂e.

The greatest sources of emissions this financial period were gas and electricity consumption. Welwyn Hatfield Council's managed electricity accounted for 38.8% of the overall emissions, Welwyn Hatfield Council's managed gas accounted for 18.8% of the overall emissions. Non Welwyn Hatfield Council managed gas accounted for 20.8% of the overall carbon emissions, Non Welwyn Hatfield Council managed electricity accounted for 15%. Transmission and distribution of Welwyn Hatfield Council's managed electricity accounted for 4.1% of the overall CO₂e emissions. The remaining sources of emissions were business travel and paper usage which equated to less than 3% of the overall CO₂e emissions.

The reduction in overall emissions between 2024/25 and 2025/26 can largely be attributed to a decrease in gas consumption across Welwyn Hatfield Council's operational estate and leisure sites. This reduction reflects the continued effective operation of recently installed air source heat pumps, which have reduced reliance on gas-fired heating systems, alongside increased awareness and improved energy-efficient behaviours among building users. Collectively, these factors have contributed to lower energy demand and associated carbon emissions.

A small increase in emissions has been observed within the temporary accommodation and landlord supply sites. This is primarily due to additional buildings becoming fully operational during the reporting period, resulting in a larger estate footprint and corresponding increase in energy consumption.

It should also be noted that a small number of properties classified as estates rented properties are not currently reported through the Sigma energy management platform. These properties recorded zero gas consumption during the reporting period and therefore have not contributed to reported gas-related emissions.

Overall, the reduction in gas consumption across Welwyn Hatfield Council's core operational buildings has more than offset increases associated with the expansion of the temporary accommodation estate, resulting in a net decrease in emissions between 2024/25 and 2025/26.

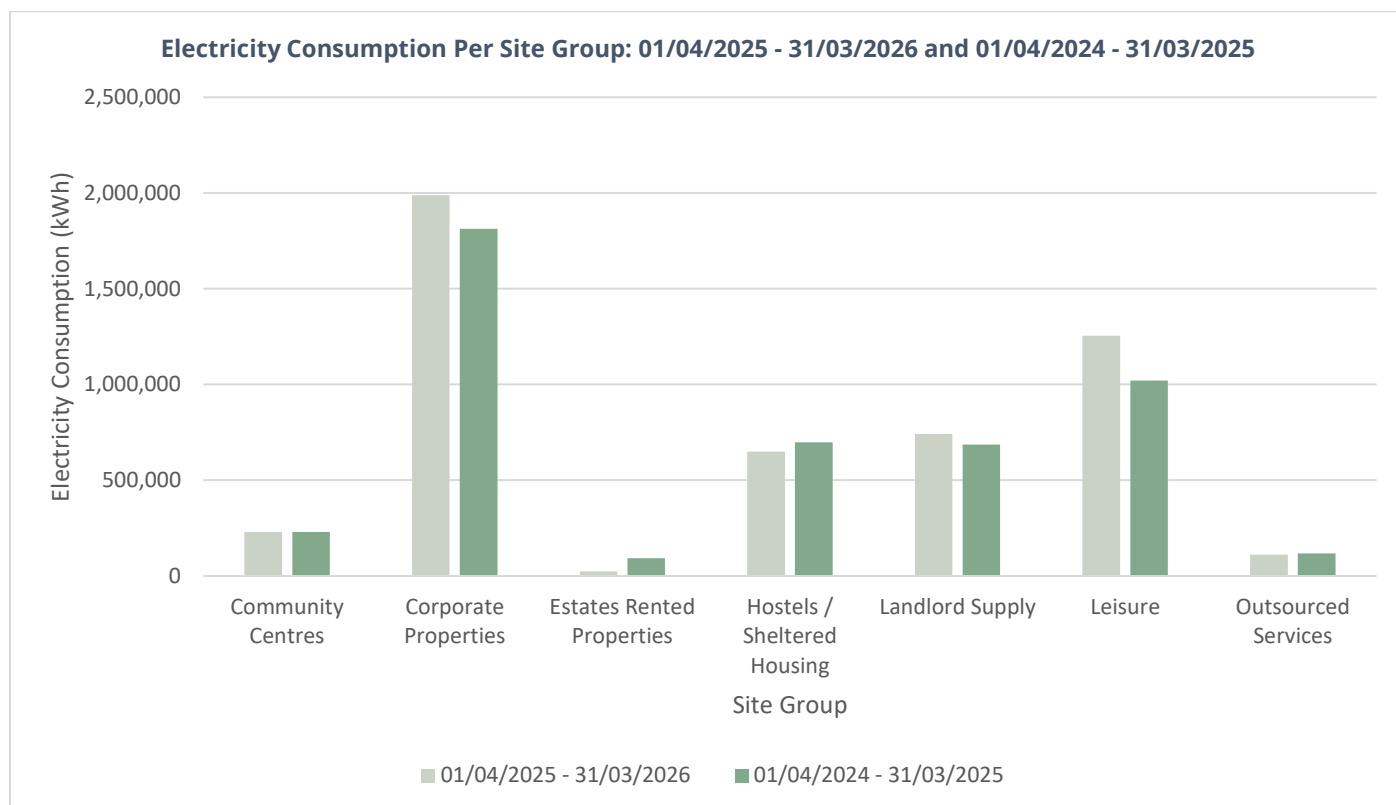


Figure 7 Electricity consumption per site group comparing this financial year to the previous

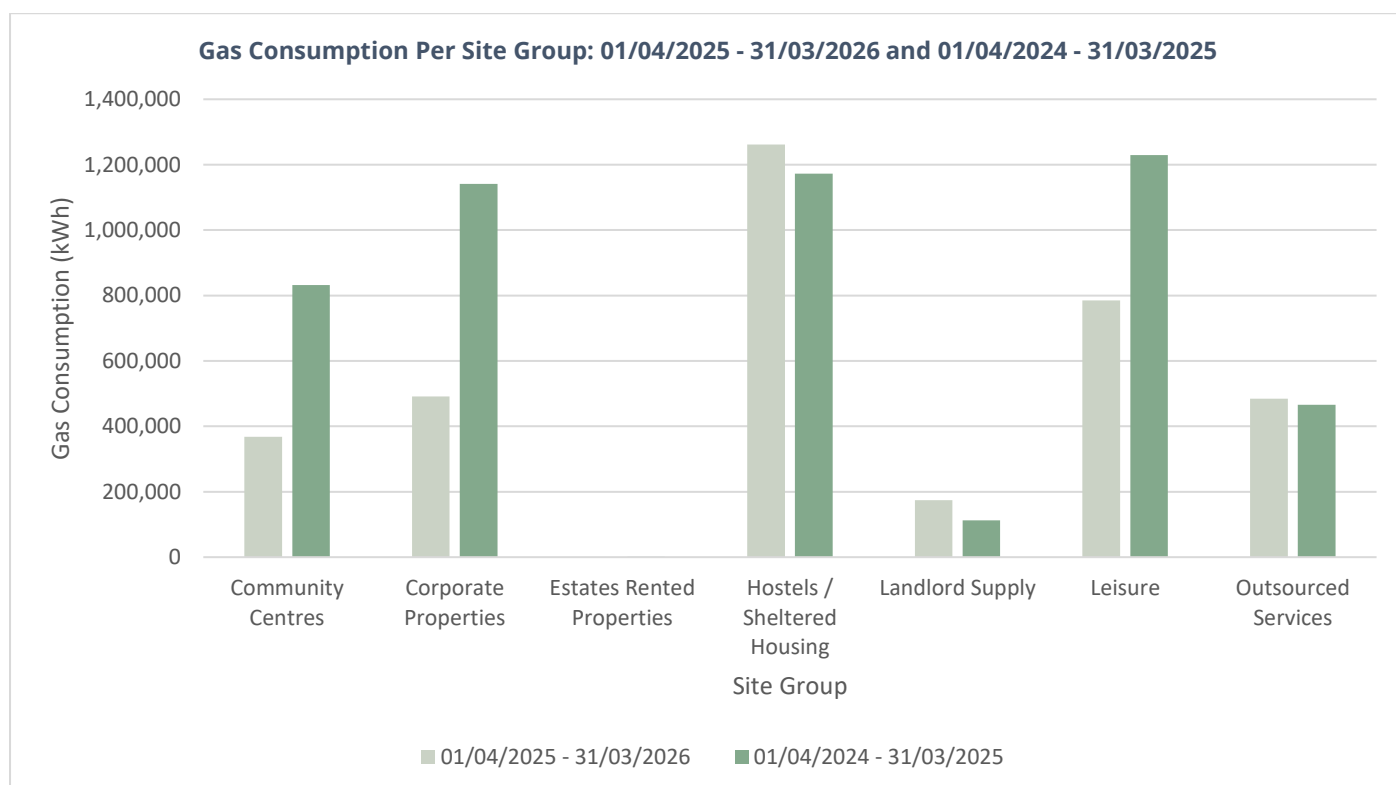


Figure 8 Gas consumption per site group comparing this financial period to the previous

6 Appendix

6.1 Backing Data

Scope	Emission Source	Category	Source Unit	Total (12 months)	kWh	kgCO ₂ e	tCO ₂ e
Scope 1	Natural Gas	WHC Managed Gas	kWh	1,693,610	1,693,610	309,863	309.9
Scope 1	Class I Van (up to 1.305 tonnes) - Diesel	Company-Owned Vehicles	miles	8,547	8,361	2,165	2.2
Scope 1	Class II Van (1.305 to 1.74 tonnes) - Diesel	Company-Owned Vehicles	miles	18,298	21,946	5,672	5.7
Scope 1	Class III Van (1.74 to 3.5 tonnes) - Diesel	Company-Owned Vehicles	miles	19,671	34,242	8,826	8.8
Scope 1	medium car - Hybrid	Company-Owned Vehicles	miles	2,772	2,125	523	0.5
Scope 2	Average Car - Battery Electric (Electricity Only)	Company-Owned Vehicles	miles	5,478	1,821	323	0.3
Scope 2	Electricity	WHC Managed Electricity	kWh	3,611,482	3,611,482	639,232	639.2
Scope 3	Paper Usage (Primary Material Production)	Paper Usage	Tonnes	0.05	0	67	0.1
Scope 3	Paper Usage (Closed Loop Recycled)	Paper Usage	Tonnes	2.49	0	2,612	2.6
Scope 3	Train Travel	Public Transport	passenger.km	19,881	0	705	0.7
Scope 3	Tube Travel	Public Transport	passenger.km	22	0	1	0.0
Scope 3	Average car - Unknown Fuel	Public Transport	miles	26	28	7	0.0
Scope 3	Average car - Diesel	Non-Company-Owned Vehicles	miles	2,144	2,308	597	0.6
Scope 3	Average Car - Battery Electric (Electricity Only)	Non-Company-Owned Vehicles	miles	1,125	374	66	0.1
Scope 3	Average Car - Hybrid	Non-Company-Owned Vehicles	miles	8,301	7,030	1,713	1.7
Scope 3	Average car - Petrol	Non-Company-Owned Vehicles	miles	572	648	150	0.1
Scope 3	large car - Diesel	Non-Company-Owned Vehicles	miles	2,075	2,716	702	0.7
Scope 3	Class III Van (1.74 to 3.5 tonnes) - Diesel	Non-Company-Owned Vehicles	miles	1,356	2,360	608	0.6

Scope	Emission Source	Category	Source Unit	Total (12 months)	kWh	kgCO ₂ e	tCO ₂ e
Scope 3	medium car - Diesel	Non-Company-Owned Vehicles	miles	7,162	7,651	1,980	2.0
Scope 3	Class II Van (1.305 to 1.74 tonnes) - Diesel	Non-Company-Owned Vehicles	miles	3,150	3,778	976	1.0
Scope 3	medium car - Petrol	Non-Company-Owned Vehicles	miles	11,262	13,701	3,167	3.2
Scope 3	small car - Diesel	Non-Company-Owned Vehicles	miles	8,363	7,445	1,930	1.9
Scope 3	small car - Petrol	Non-Company-Owned Vehicles	miles	36,216	36,045	8,339	8.3
Scope 3	Electricity	Non WHC Managed Electricity	kWh	1,391,252	1,391,252	246,252	246.3
Scope 3	Natural Gas	Non WHC Managed Gas	kWh	1,870,014	1,870,014	342,138	342.1
Scope 3	Transmission and Distribution	Transmission and Distribution (WHC Managed Elec.)	kWh	3,611,482	0	66,921	66.9

Table 5 Welwyn Hatfield Council's input data breakdown

Scope	Emissions Source	Sum of tCO ₂ e	Percentage of Total Emissions
Scope 1	Company-Owned Vehicles	17.51	1.1%
Scope 1	WHC Managed Gas	309.86	18.8%
Scope 2	WHC Managed Electricity	639.23	38.8%
Scope 3	Non WHC Managed Electricity	246.25	15.0%
Scope 3	Non WHC Managed Gas	342.14	20.8%
Scope 3	Non-Company-Owned Vehicles	20.23	1.2%
Scope 3	Paper Usage	2.68	0.2%
Scope 3	Public Transport	0.71	0.0%
Scope 3	Transmission and Distribution (WHC Managed Elec.)	66.92	4.1%
Grand Total		1,645.53	

Table 6 Scope and percentage split breakdown

Overall Summary (01/04/2025 – 31/03/2026)				
Scope	Total kWh	Total kgCO ₂ e	Total tCO ₂ e	Percentage
Scope 1	1,760,284	327,048	327.0	20%
Scope 2	3,613,303	639,555	639.6	39%
Scope 3	3,345,350	678,931	678.9	41%
Total	8,718,938	1,645,534	1,645.5	100%

Table 7 FY 2025/2026 Overall Summary

Site Group	Elec. Consumption (kWh)
Community Centres	230,685
Corporate Properties	1,988,618
Estates Rented Properties	24,704
Hostels / Sheltered Housing	650,234
Landlord Supply	741,945
Leisure	1,255,570
Outsourced Services	110,978
Grand Total	5,002,734

Table 8 Electricity consumption per site group

Site Group	Gas Consumption (kWh)
Community Centres	367,973
Corporate Properties	490,951
Estates Rented Properties	0
Hostels / Sheltered Housing	1,261,829
Landlord Supply	173,809
Leisure	784,840
Outsourced Services	484,221
Grand Total	3,563,624

Table 9 Gas consumption per site group



team

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