

Sunderland City Council Quarterly Carbon Emissions Report 2023/24 Q1 - 4

Q1 2023/24 (April – June)

Sunderland City Council's operational emissions reduced by 13 tonnes (0.7%) in April – June 2023 when compared to same period in the previous year. This includes reductions in gas consumption and the generation of purchased electricity. Emissions from other operational sources increased, due to increased fuel consumption in the vehicle fleet and an increase in the carbon intensity of UK electricity. Emissions from quarterly monitored scope 3 sources decreased by 74 tonnes (3.5%).

Source	Scope	2022/23 Q1	2023/24 Q1	Trend since previous year Q1
Gas Consumption	1	552.62	490.44	↘ 11.25%
Vehicle Fleet	1	623.34	656.89	↗ 5.28%
Electricity – Buildings	2	456.64	459.39	↗ 0.60%
Electricity - Streetlighting	2	295.72	308.73	↗ 4.40%
Fuel- and Energy-Related Activities	3	508.88	492.85	↘ 3.15%
Leased Assets	3	1599.28	1541.06	↘ 3.64%
Total Scope 1 & 2		1928.32	1915.44	↘ 0.67%
Total all scopes		4036.48	3949.35	↘ 2.16%

Q2 2023/24 (July – September)

Sunderland City Council's operational emissions reduced by 68 tonnes (3.8%) in July - September 2023 when compared to same period in the previous year. This includes reductions in gas consumption and the generation of purchased electricity across the operational estate. Emissions from the vehicle fleet and the generation of purchased electricity for streetlighting increased, due to increased fuel consumption in the vehicle fleet and an increase in the carbon intensity of UK electricity respectively. Emissions from quarterly monitored scope 3 sources decreased by 162 tonnes (10.5%).

Source	Scope	2022/23 Q2	2023/24 Q2	Cumulative total YTD	Trend since previous Q2	Trend YTD
Gas Consumption	1	362.02	280.49	770.92	↘ 22.52%	↘ 15.71%
Vehicle Fleet	1	619.14	652.12	1309.01	↗ 5.33%	↗ 5.35%
Electricity – Buildings	2	455.79	430.41	889.79	↘ 5.57%	↘ 2.48%
Electricity - Streetlighting	2	335.49	341.50	650.23	↗ 1.79%	↗ 3.01%
Fuel- and Energy-Related Activities	3	489.14	458.19	951.04	↘ 6.33%	↘ 4.71%
Leased Assets	3	1058.41	927.38	2468.43	↘ 12.38%	↘ 7.12%
Total Scope 1 & 2		1772.44	1704.51	3619.95	↘ 3.83%	↘ 2.18%
Total all scopes		3319.99	3090.07	7039.43	↘ 6.93%	↘ 4.31%

Q3 2023/24 (October - December)

Sunderland City Council's operational emissions reduced by 33 tonnes (0.7%) in October - December 2023 when compared to same period in the previous year. This includes reductions in gas consumption and the generation of purchased electricity. Emissions from other operational sources increased, due to increased fuel consumption in the vehicle fleet and an increase in the carbon intensity of UK electricity. Emissions from quarterly monitored scope 3 sources decreased by 122 tonnes (3.9%).

Source	Scope	2022/23 Q3	2023/24 Q3	Cumulative total YTD	Trend since previous Q3	Trend YTD
Gas Consumption	1	764.99	700.87	1471.79	↘ 8.38%	↘ 12.37%
Vehicle Fleet	1	657.77	658.52	1967.53	↗ 0.11%	↗ 3.54%
Electricity – Buildings	2	473.23	482.26	1372.05	↗ 1.91%	↘ 0.98%
Electricity - Streetlighting	2	594.09	615.00	1265.23	↗ 3.52%	↗ 3.26%
Fuel- and Energy-Related Activities	3	664.28	635.64	1586.68	↘ 4.31%	↘ 4.55%
Leased Assets	3	2438.93	2345.41	4813.85	↘ 3.83%	↘ 5.55%
Total Scope 1 & 2		2490.09	2456.64	6076.59	↘ 1.34%	↘ 1.85%
Total all scopes		5593.30	5437.69	12477.12	↘ 2.78%	↘ 3.65%

Q4 2023/24 (January - March)

Sunderland City Council's operational emissions reduced by 316.1 tonnes (12.3%) in January – March 2024 when compared to same period in the previous year. This includes reductions in gas consumption and liquid fuels for the vehicle fleet. Despite lower consumption than for the same period in the previous year, emissions from purchased electricity generation increased due to the 7% increase in the carbon intensity of UK electricity generation. Emissions from quarterly monitored scope 3 sources decreased by 1000 tonnes (9.7%).

Source	Scope	2022/23 Q4	2023/24 Q4	Trend since previous year Q4	Trend YTD
Gas Consumption	1	904.46	607.94	↘32.8%	↘19.5%
Vehicle Fleet	1	669.58	621.54	↘7.2%	↘0.8%
Electricity – Buildings	2	462.46	472.29	↗2.1%	↗0.2%
Electricity - Streetlighting	2	530.39	549.02	↗3.5%	↗3.3%
Fuel- and Energy-Related Activities	3	664.61	594.14	↘10.6%	↘31.8%
Leased Assets	3	2,908.33	2,788.60	↘4.1%	↘4.9%
Total Scope 1 & 2		2,566.89	2,250.79	↘12.3%	↘4.9%
Total all scopes		6,139.83	5,633.53	↘8.25%	↘ 8.0%