

Appendix

1. Top 30 site energy performance and bottom 5 performance overview

Weather Corrected Data: Performance comparison by top 30 sites: Q1 2023/24

Row Labels		Sum of kWh Difference 23 vs 22	Sum of Jun-19	Sum of Jun-22	Sum of Jun-23
Central Criminal Court	-	1,330,501	7,530,367	6,675,276	5,344,775
Guildhall Complex	-	1,079,525	17,596,559	13,584,141	12,504,616
Mansion House	-	719,215	2,200,311	2,382,125	1,662,909
GSMD - Milton Court	-	635,294	3,594,296	4,402,853	3,767,559
Billingsgate Market	-	173,764	3,612,570	3,427,365	3,253,600
Open Spaces Golders Hill & Extension	-	171,631	338,403	435,363	263,732
New Spitalfields Market (Landlords)	-	115,661	6,795,740	5,899,856	5,784,194
London Metropolitan Archives	-	98,745	1,325,213	1,238,306	1,139,561
Streetlighting	-	97,201	3,576,514	1,961,862	1,864,661
GSMD - Sundial Court	-	96,616	1,826,106	1,581,121	1,484,505
Open Spaces Epping Forest	-	93,184	639,818	707,049	613,865
Tower Hill Coach & Car Park	-	49,410	549,416	565,034	515,623
Open Spaces East Heath & Kenwood	-	29,550	115,917	172,010	142,460
GSMD	-	23,781	2,221,345	1,999,197	1,975,415
Animal Reception Centre	-	10,213	741,977	743,230	733,017
Open Spaces Hampstead Heath Leisure	-	6,731	661,370	658,313	651,581
London Wall Car Park	-	2,564	218,843	211,784	214,348
Mayor's Court	-	10,097	312,999	252,688	262,785
Baynard House Car Park	-	11,503	165,009	157,963	169,466
Open Spaces Parliament Hill	-	15,521	266,635	285,190	300,711
City of London School	-	44,075	3,229,358	3,264,897	3,308,972
City of London Freeman's School	-	72,456	4,489,478	4,545,958	4,618,414
Walbrook Wharf Cleansing Depot	-	130,896	1,639,210	2,159,765	2,290,662
New Street (21)	-	137,070	1,699,797	2,622,333	2,759,403
Tower Bridge	-	151,011	2,299,578	2,154,957	2,305,969
Bishopsgate Police Station	-	172,138	3,388,311	3,243,497	3,415,635
City of London Crematorium	-	213,005	2,926,347	2,105,143	2,318,148
City of London School For Girls	-	369,434	2,231,356	1,627,245	1,996,679
London Central Market (Smithfield)	-	547,105	17,013,149	10,834,719	11,381,825
Barbican Arts Centre	-	914,035	12,359,577	15,743,272	16,657,307
Grand Total	-	1,940,112	105,565,569	95,642,510	93,702,398

2. Bottom 5 performing sites

Bottom 5 Performing Sites Weather Corrected	Jun-22	Jun-23	Difference kWh 23 vs 22	Potential Rationale
Barbican Arts Centre	15,743,272	16,657,307	914,035	The data indicates a high proportion of estimation and is based on best available information. There was also a period of covid bounceback, however the Energy Team is actively engaging to support the site with projects.
London Central Market (Smithfield)	10,834,719	11,381,825	547,105	BEMS maintenance/upgrade issues means a period of higher energy consumption when plant went in hand. The Energy Team will continue to provide support and guidance.
City of London School For Girls	1,627,245	1,996,679	369,434	BEMS Control issues are thought to be the main driver of the increase. The Energy Team is continuing to support the site with reduction opportunities and a site visit is currently being investigated.
City of London Crematorium	2,105,143	2,318,148	213,005	BEMS controls are thought to be the main reason for the increase. A pump strategy is being reviewed and the Energy Team will provide support
Bishopsgate Police Station	3,243,497	3,415,635	172,138	Energy Team site visit discovered boilers running in hand. BEMS Engineer adjusted flow rate and will continue to support the site monitor BEMS controls

3.CO_{2e} targets for City of London Corporation

City of London (own operations)	Units	Scope	2018	2019	2020	2021	2022	2023	2024	2025	2026	2030	2035	2040
Corporate Properties and Landlord Area	ktCO _{2e}	Scope 1 & 2	36.4	33.9	30.4	24.4	22.8	19.4	18.1	17.0	14.85	7.2	4.5	3.1
Carbon Removals and Land Management (Scope 1)	ktCO _{2e}	Scope 1	-16.2	-16.2	-16.2	-16.2	-16.2	-16.2	-16.2	-16.2	-17.64	-17.6	-17.6	-17.6
Total net zero emissions	ktCO_{2e}	Scope 1 & 2	20.2	17.7	14.2	8.19	6.54	3.18	1.83	0.76	-2.79	-10.5	-13.1	-14.6
Net (negative removed)	ktCO _{2e}	Scope 1 & 2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	17.6			
% reduction against baseline year	%	Scope 1 & 2	0%	-7%	-16%	-33%	-37%	-47%	-50%	-53%	-59%			
Target amount to reduce in period	ktCO _{2e}	Scope 1 & 2					13.6		4.7		3.2			
% of target to deliver in that period	%	Scope 1 & 2					63%		22%		15%			
Total target amount to reduce	ktCO _{2e}	Scope 1 & 2									21.5	To be reduced by 2026/7		

4. List of key sites in an energy performance partnership with Vital Energi

Guildhall Complex	City of London School	London Metropolitan Archives
Barbican Arts Centre	City of London School for Girls	Tower Hill Car Park
London Central Market (Smithfield)	Walbrook Wharf Cleansing Depot	GSMD – Sundial Ct
Central Criminal Court	Tower Bridge	
New Spitalfields Market	GSMD - Milton Court	
City of London Freeman's School	Mansion House	
Billingsgate Market	GSMD	

High Level Assessments of all the above sites have been completed, with further surveying in progress for the remainder. Projects are now being selected for investment grade proposals with initial work on this well underway. These projects will be presented for gateway approval and are not affected by the review of the capital programme. Projects under consideration will include (but not be limited to):

- Energy efficient lighting and controls
- Improvements to HVAC systems
- Optimisation and improvement of BMS controls
- Hydraulic and pumping optimisation
- Low carbon heating
- Renewables
- Fabric measures and draught proofing.

5. Tenant consumption

Location	April - June 2023 Q1	% Increase since 22/23 (Red indicates decrease)
Billingsgate Market	313,020	14% ▼
Billingsgate Market	299,973	132% ▲
London Central Market (Smithfield)	1,638,629	5% ▼
New Spitalfields Market (Landlords)	1,321,258	7% ▲
Walbrook Wharf	28,001	17% ▲

6. Operational properties only

Please note that the chart below represents 23/24 Q1 carbon values only and does not include a rolling year. For the first time, the PPA has generated more electricity than the City has utilised in Q1, resulting in a negative -0.09 kt CO₂e for the operational portfolio (known as Market based emissions). However, if we exclude the contribution from the PPA (in other words, “Location based emissions”) the carbon emissions for Q1 23/24 equate to 2.80 kt CO₂e.

The black bars represent operational portfolio carbon.

- The grey bars represent projected carbon.

- The black line shows actual carbon and projected carbon for the City's entire portfolio, including operational, investment and housing. Current quarterly carbon emissions are available in the CAS dashboard.

