

## Appendix

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

Weather Corrected Data: Performance comparison by top 30 sites: Q4 2022/23

Row Labels	Sum of Mar-19	Sum of Mar-22	Sum of Mar-23	Sum of kWh Difference 23 vs 22
Animal Reception Centre	746,890	747,981	717,364	- 30,618
Barbican Arts Centre	17,469,734	15,004,662	16,609,177	1,604,515
Baynard House Car Park	165,216	151,024	166,202	15,178
Billingsgate Market	3,579,617	3,461,594	3,275,526	- 186,068
Bishopsgate Police Station	3,408,990	2,769,529	3,453,913	684,384
Central Criminal Court	7,825,308	6,624,980	5,568,390	- 1,056,590
City of London Crematorium	2,788,975	2,292,229	2,324,161	31,932
City of London Freeman's School	4,861,084	4,586,124	4,940,940	354,816
City of London School	3,229,652	3,155,942	3,333,962	178,020
City of London School For Girls	2,250,368	1,742,499	2,009,500	267,001
GSMD	2,265,131	1,992,445	1,945,596	- 46,848
GSMD - Milton Court	3,876,940	3,824,892	3,947,152	122,260
GSMD - Sundial Court	1,776,176	1,648,327	1,450,305	- 198,022
Guildhall Complex	17,810,289	14,319,976	13,041,092	- 1,278,884
London Central Market (Smithfield)	17,049,847	10,491,520	11,433,828	942,307
London Metropolitan Archives	1,344,258	1,265,552	1,162,774	- 102,779
London Wall Car Park	219,171	215,333	205,523	- 9,810
Mansion House	2,289,797	2,250,048	1,725,984	- 524,064
Mayor's Court	313,093	253,760	262,489	8,729
New Spitalfields Market (Landlords)	6,800,091	5,826,230	5,858,179	31,949
New Street (21)	1,807,820	2,545,050	2,640,699	95,650
Open Spaces East Heath & Kenwood	215,554	193,818	141,111	- 52,707
Open Spaces Epping Forest	662,688	776,898	638,237	- 138,661
Open Spaces Golders Hill & Extension	361,751	454,447	239,749	- 214,698
Open Spaces Hampstead Heath Leisure	656,692	671,636	649,132	- 22,504
Open Spaces Parliament Hill	268,167	279,111	292,830	13,718
Streetlighting	3,622,410	1,983,340	1,879,814	- 103,527
Tower Bridge	2,305,342	2,015,186	2,325,066	309,880
Tower Hill Coach & Car Park	542,795	537,209	549,299	12,091
Walbrook Wharf Cleansing Depot	1,727,333	2,124,381	2,172,032	47,651
<b>Grand Total</b>	<b>112,241,179</b>	<b>94,205,724</b>	<b>94,960,026</b>	<b>754,302</b>

## 2. Bottom 5 performing sites

Bottom 5 Performing Sites Weather Corrected	Mar-22	Mar-23	Difference kWh 23 vs 22	Potential Rationale
Barbican Arts Centre	15,004,662	16,609,177	1,604,515	The data is based on estimated indicates a high proportion of estimated data, and the Energy Team have utilised our own estimates for several meters believed to be impacted by the PSDS project. It must be noted that there is still a reduction in consumption against the baseline year.
London Central Market (Smithfield)	10,491,520	11,433,828	942,307	There has been a 22% Increase in occupancy compared to 21/22; however there has been a 33% reduction in consumption since the Baseline year. East and West BEMS maintenance/upgrade issues likely means a temporary period of higher energy consumption
Bishopsgate Police Station	2,769,529	3,453,913	684,384	The BMS was broken, boilers were turned on 24/7, canteen/kitchen running longer hours. Still a reduction against baseline year
City of London Freeman's School	4,586,124	4,940,940	354,816	Philip House was unoccupied during baseline year. Emphasis on improved ventilation as a result of covid. The Energy Team have collaborated with the site to develop a list of Energy Conservation Measures (ECMs) which include review of ventilation, heating and cooling system. The Energy team will continue to support the site
Tower Bridge	2,015,186	2,325,066	309,880	BEMS upgrade challenges could indicate boilers running out of hand. The Energy Team will support the site to address these and upcoming challenges.

## 3.CO<sub>2e</sub> 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 <sub>2e</sub>	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 <sub>2e</sub>	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
<b>Total net zero emissions</b>	<b>ktCO<sub>2e</sub></b>	<b>Scope 1 &amp; 2</b>	<b>20.2</b>	<b>17.7</b>	<b>14.2</b>	<b>8.19</b>	<b>6.54</b>	<b>3.18</b>	<b>1.83</b>	<b>0.76</b>	<b>-2.79</b>	<b>-10.5</b>	<b>-13.1</b>	<b>-14.6</b>
Net (negative removed)	ktCO <sub>2e</sub>	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 <sub>2e</sub>	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 <sub>2e</sub>	Scope 1 & 2									21.5	To be reduced by 2026/7		

## 4. PSDS Project update

The PSDS projects are now pending practical completion.

## 5. 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.

## 6. Tenant consumption

Note: This table has been newly created due to feedback from stakeholders requesting information about tenant and landlord consumption.

Tenant Consumption figures (kWh)	Location	Total 21/22	April - June 2022 Q1	July - Sept 2022 Q2	Oct - Dec 2022 Q3	Jan - March 2023 Q4	Total 22/23	% Increase 21/22
Electricity	Billingsgate Market	1,477,333	362,744	374,611	337,813	225,565	1,300,733	12% ▼
Gas	Billingsgate Market	741,776	129,255	33,201	246,683	286,759	695,898	6% ▼
Electricity	London Central Market (Smithfield)	5,599,694	1,732,696	1,874,316	1,774,216	1,431,586	6,812,814	22% ▲
Electricity	New Spitalfields Market (Landlords)	4,979,897	1,234,481	1,661,938	1,190,681	1,037,656	5,124,756	3% ▲
Electricity	Walbrook Wharf	101,534	23,912	23,869	25,428	25,459	98,668	3% ▼

## 7. Operational properties only

The black bars represent operational portfolio carbon.

- The grey bars represent projected carbon.
- The white bar with the black lining shows what carbon *would have been* without the PPA at 16.35 kt CO<sub>2</sub>e.
- The black bar indicates carbon including the PPA at 15.36 kt CO<sub>2</sub>e.
- 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.

### Carbon Trajectory Operational Portfolio Includes PPA

