

## Appendix

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

Weather Corrected Data: Performance comparison by top 30 sites: Q2 2023/24

Row Labels	Sum of kWh Difference 23 vs 22	Sum of Sep-19	Sum of Sep-22	Sum of Sep-23
Guildhall Complex	- 1,291,326	17,309,092	13,315,774	12,024,448
Central Criminal Court	- 1,074,109	7,043,488	6,341,486	5,267,377
GSMD - Milton Court	- 826,247	3,452,677	4,631,858	3,805,611
Mansion House	- 680,906	2,172,318	2,322,501	1,641,595
Bishopsgate Police Station	- 203,302	3,246,231	3,170,568	2,967,266
City of London Freeman's School	- 195,219	4,725,833	4,976,622	4,781,403
Open Spaces Golders Hill & Extension	- 139,162	349,319	408,464	269,302
Tower Hill Coach & Car Park	- 109,733	547,524	587,220	477,487
GSMD - Sundial Court	- 109,557	1,806,882	1,572,020	1,462,463
Billingsgate Market	- 108,525	3,729,587	3,354,611	3,246,087
Streetlighting	- 93,472	3,530,204	1,943,943	1,850,470
City of London School	- 70,627	3,317,852	3,324,176	3,253,549
London Metropolitan Archives	- 40,326	1,297,017	1,203,726	1,163,400
Open Spaces Epping Forest	- 31,840	633,721	701,364	669,523
Open Spaces East Heath & Kenwood	- 27,350	103,107	167,280	139,929
Tower Bridge	- 7,248	2,222,641	2,234,110	2,226,862
Animal Reception Centre	- 5,883	752,928	725,880	719,997
Baynard House Car Park	- 5,401	165,691	168,269	162,867
Mayor's Court	881	233,554	256,514	257,395
London Wall Car Park	3,148	220,442	207,609	210,757
Open Spaces Hampstead Heath Leisure	17,604	672,698	656,219	673,823
GSMD	24,040	1,923,768	2,017,422	2,041,462
Open Spaces Parliament Hill	41,391	274,133	270,285	311,676
City of London Crematorium	137,227	3,024,855	2,115,635	2,252,862
New Spitalfields Market (Landlords)	180,789	6,806,493	5,828,812	6,009,601
Walbrook Wharf Cleansing Depot	194,993	1,568,192	2,147,750	2,342,742
London Central Market (Smithfield)	398,067	15,374,201	10,712,306	11,110,373
City of London School For Girls	496,927	2,272,038	1,592,264	2,089,191
New Street (21)	531,150	1,720,585	2,260,912	2,792,062
Barbican Arts Centre	2,033,124	17,646,079	15,060,034	17,093,157
<b>TOTAL</b>	- <b>960,894</b>	<b>108,143,150</b>	<b>94,275,632</b>	<b>93,314,738</b>

## 2. Bottom 5 performing sites

Bottom 5 Performing Sites Weather Corrected	Sep-22	Sep-23	Difference kWh 23 vs 22	Potential Rationale
Barbican Arts Centre	15,060,034	17,093,157	2,033,124	The site is still seeing a rebound in consumption following on from Covid. Compared to 21/22, there is increased tourist and visitor footfall, more employees have returned to office work and student occupancy has also increased.
New Street (21)	2,260,912	2,792,062	531,150	Likely due to more staff now being in the office. Between Oct 21 and Sept 22, many employees were still working from home.
City of London School For Girls	1,592,264	2,089,191	496,927	Inefficient BMS system and the school has started taking more lettings this year which will be causing the increase in consumption.
London Central Market (Smithfield)	10,712,306	11,110,373	398,067	Still experiencing issues with pumps and inverters which may be causing the increase in consumption. Additionally, there was a loss of some BMS interactions before and after the vacation of the Poultry Market.
Walbrook Wharf Cleansing Depot	2,147,750	2,342,742	194,993	The new smoke extraction and ventilation system went live in Summer 2023. Additionally, there are currently lighting issues on the 2nd & 5th floors meaning the lighting is on permanently.

### 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. Current CAS Capital Programme Projects

Number	Site	Scope of works	Description
1	Barbican Arts Centre	pump replacement	Project completed and currently in hand-over/snagging status. One pump set has been free issued to install during summer shut down due to complexities of installing on a live heating system.
2	Barbican Arts Centre and Guildhall School of Music and Drama	EC fans replacement	Contract ready to sign with works on site commencing in Jan.
3	Barbican Arts Centre	Lighting replacement	Contract ready to sign with works on site commencing in Jan.
4	Guildhall	Lighting replacement	Certain areas ready to start installing, other areas such as the Amphitheatre and Great Hall still require approval from all parties.
5	Tower Hill Coach and Car Park	Lighting, Ventilation and BMS	Lighting project on site and Coach Parking area completed. Ventilation and BMS projects to start on site in January.
6	Multiple	BMS optimisation: Stage One	Site visits completed at four properties (21 New Street, Bishopsgate Police Station, Heathrow Animal Reception Centre and Cemetery and Crematorium) with Draft Investment Grade Audit report issued.
7	Multiple	BMS optimisation: Stage two	Site visits planned at the remaining properties (Central Criminal Court, Tower Bridge and London Metropolitan Archives) for Jan 2024
8	London Metropolitan Archives	Solar PV	Installation of Solar PV on the roof of the building. Project ready to go live however, internal discussions as to how the cost of replacing an existing switch panel is to be met.
9	Guildhall School of Music and Drama	LED, BMS, EC Fan	Project scope being refined.
10	Barbican Arts Centre	Specialist Lighting	On hold whilst the Barbican Capital Works discussion is on-going.

11	Guildhall Hall	EC Fans	On hold until Guildhall Yard East refurbishment options are confirmed.
12	Mansion House - phase 1	Draught proofing, LED lighting, fan replacements, ventilation improvements, pipework insulation, BEMS Optimisation	GW3,4 and 5 Paper written and to be submitted in Jan 2024
13	Mansion House - phase 2	ASHP and PV installation	In progress with GW 3&4 paper to be submitted in Jan 2024 to request funding for planning application.
14	The Warren	LED lighting, pipe insulation and ASHP	GW3,4&5 to be submitted in Jan 2024 following internal conversations regarding funding of ASHP.
15	Walbrook Wharf - phase 1	EC Fans, pipework insulation, pump replacement, BEMS Optimisation	GW3,4&5 to be submitted in Jan 2024
16	Walbrook Wharf - phase 2	ASHP installation	GW3,4&5 paper to be submitted in Jan 2024 following internal conversations regarding funding of ASHP
17	Open Space PV – Parliament Hill Lido	PV installation	GW3,4&5 paper to be submitted in Jan 2024 following internal discussions as to how the cost of replacing an existing switch panel is to be met.
18	Heathrow Animal Reception Centre – Phase 1	Solar PV, LED Lighting, EC Fans	High Level Appraisal completed with options put forward for consideration. To be discussed with the site operatives in Jan 2024 to better understand development plans for the site.
19	Heathrow Animal Reception Centre – Phase 2	ASHP to replace existing boilers	High Level Appraisal completed with options put forward for consideration. This needs to be refined and discussed with regard to site wide DHW requirements and development plans for the site.