TABLE 1. DEVELOPMENT INFORMATION		NOTES
Date of Application	12/10/2022	Please provide the date the application was submitted to the Local Planning Authority.
Local Planning Authority	Surrey	Please indicate the Local Planning Authority determining the application.
Confirmed carbon offset price (£/tonne of carbon dioxide)	95	Please confirm the agreed carbon offset price for the Local Planning Authority. Evidence of communication on the price is expected to be included in the energy assessment. If no value is entered then the GLA's recommend price of £95 per tonne of carbon dioxide will be used.

TABLE 2. CARBON (CO_2) FACTORS		NOTES
Fuel type	Fuel Carbon Factor (kgCO$_2$/kWh) SAP 10.2	
Natural Gas	0.210	SAP 10.2 carbon emission factors (Table 12).
Grid Electricity	0.136	
Enter Carbon Factor 1	0.138833	These factors should be used where alternative fuel is used to grid gas and electricity. Carbon emission factors used here must be taken from Table 12 and Table 12f (for CHP generated electricity) within the SAP 10.2 document.
Enter Carbon Factor 2		
Enter Carbon Factor 3		Fuel type should be updated and referenced in Column A when additional carbon factor values have been added.
Enter Carbon Factor 4		
Bespoke DH Factor		This should only be used for non-domestic buildings that are connecting to District Heating (DH) networks. The network carbon factor should be calculated in line with Part L requirements and separate factors should be provided using and SAP 10.2 fuel factors. Assumptions and workings should be shown below in Table 4.

TABLE 3. BESPOKE DH CARBON FACTOR CALCULATION METHODOLOGY
Please provide below details of the calculation methodology followed to establish the bespoke carbon factor, if applicable.

TABLE 4. DISTRIBUTION LOSSES			COMMENTS
Primary network (buried pipe)	Total pipe length (m)		
	Average heat loss rate (W/m)		
Secondary network (buried pipe)	Total pipe length (m)		
	Average heat loss rate (W/m)		
Total losses (MWh/year)			
Total heat supplied (MWh/year)			
Distribution Loss Factor (DLF)			
Calculation included in energy statement (yes/no)			

The applicant should complete all the light blue cells including information on the modelled units, the area per unit, the number of units, the baseline energy consumption figures, the TER and the TFEE.

RESIDENTIAL ENERGY CONSUMPTION AND CO₂ ANALYSIS (PART L1)

Unit identifier (e.g. plot number, dwelling type etc.)	Model total floor area (m²)	Number of units	Total area represented by model (m²)	VALIDATION CHECK		TER Worksheet (Row 4)	REGULATED ENERGY CONSUMPTION PER UNIT (kWh p.a.) - SAP TER WORKSHEET																		REGULATED CO₂ EMISSIONS PER UNIT (kgCO₂ p.a.)									Fabric Energy Efficiency (FEE)
				Calculated TER (kgCO₂ / m²)	TER Worksheet TER (kgCO₂ / m²)		Space Heating (Heat Source 1)	Fuel type Space Heating	Domestic Hot Water (Heat Source 1)	Fuel type Domestic Hot Water	Space Heating (Heat source 2)	Fuel type Space Heating	Domestic Hot Water (Heat source 2)	Fuel type Domestic Hot Water	Space and Domestic Hot Water from CHP	Fuel type CHP	Total Electricity generated by CHP (-)	Fuel factors for electricity generated by CHP	Secondary Heating system	Fuel type Secondary Heating	Electricity generated by renewable (-)	Lighting	Auxiliary	Cooling	Space Heating	Domestic Hot Water	Space Heating and DHW from CHP	Electricity generated by CHP	Lighting	Auxiliary	Cooling	Electricity generated by renewable technology (-)	Part L 2021 CO₂ emissions (kgCO₂ p.a.)	Target Fabric Energy Efficiency (TFEE) (kWh/m²)
					TER Worksheet (Row 273)		TER Sheet [Row 307b = (Row 307b x 0.01)] OR Row 211	Select fuel type	TER Sheet [Row 310b = (Row 307b x 0.01)] OR Row 219	Select fuel type	TER Sheet [Row 307c = (Row 307c x 0.01)]	Select fuel type	TER Sheet [Row 310c = (Row 307c x 0.01)]	Select fuel type	TER Sheet [(Row 307d = 319a) + (Row 362 x 0.01)]	Select fuel type	TER Sheet [Row 307d + 319a) + (110a) + [(Row 362 x 0.01)]	TER Sheet Row 309	Select fuel type	TER Sheet Row 333	TER Sheet Row 332 OR Row 232	TER Sheet (Row 313 + 331) OR Row 221	N/A			if applicable	if applicable							
							if applicable		if applicable		if applicable		if applicable	if applicable	if applicable																			
Sum	0	0		0.0	-		0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	0	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00

NON-RESIDENTIAL ENERGY CONSUMPTION AND CO₂ ANALYSIS (PART L2)

Building Use	Model Area (m²)	Number of units	Total area represented by model (m²)	VALIDATION CHECK		REGULATED ENERGY CONSUMPTION BY END USE (kWh/m² p.a.) TER - SOURCE: BRUKL OUTPUT											REGULATED CO₂ EMISSIONS BY FUEL TYPE (kgCO2/m² p.a.) TER - SOURCE: *SIM.CSV FILE								
				Calculated TER (kgCO₂ / m²)	BRUKL TER (kgCO₂ / m²)	Space Heating (kWh/m² p.a.)	Fuel type Space Heating	Domestic Hot Water (kWh/m² p.a.)	Fuel type Domestic Hot Water							Electricity generated by renewable (-)	Lighting (kWh/m² p.a.)	Auxiliary (kWh/m² p.a.)	Cooling (kWh/m² p.a.)	Natural Gas	Grid Electricity	Bespoke DH Factor	Enter Carbon Factor 1	Enter Carbon Factor 2	Enter Carbon Factor 3	Electricity generated by renewable technology	Part L 2021 CO₂ emissions (kgCO₂ p.a.)
																if applicable						if applicable	if applicable	if applicable	if applicable	if applicable	
2056.0	1	2056.0	11.9	11.6	40.53	Natural Gas	10.73	Natural Gas								-3.73	7.64	2.74	0.39	11	1		if applicable	if applicable	if applicable	0	23,315
			0.0																								
Sum	1	1,957	11.9	-	78,323	N/A	20,984	N/A								-3,385	15,340	5,361	763	20,957	2,918	0	0	0	0	-469	23,315

SITE-WIDE ENERGY CONSUMPTION AND CO₂ ANALYSIS

	Total Area (m²)		Calculated TER (kgCO₂ / m²)	-	REGULATED ENERGY CONSUMPTION													REGULATED CO₂ EMISSIONS	
					Space Heating (kWh p.a.)	N/A	Domestic Hot Water (kWh p.a.)	N/A	Space Heating (Heat source 2) (kWh p.a.)	N/A	Domestic Hot Water (Heat source 2) (kWh p.a.)	N/A	Space and Domestic Hot Water from CHP (kWh p.a.)	N/A	Electricity generated by CHP (kWh p.a.)	Secondary Heating system (kWh p.a.)	N/A	Electricity generated by renewable (kWh p.a.)	Lighting (kWh p.a.)	Auxiliary (kWh p.a.)	Cooling (kWh p.a.)		Part L 2021 CO₂ emissions (kgCO₂ p.a.)
Sum	1,957		11.9	-	78,323		20,984		0		0		0		0	0		-3,385	15,340	5,361	763		23,315

The applicant should complete all the light blue cells including information on the 'be lean' energy consumption figures, the 'be lean' DER, the DFEE and the regulated energy demand of the 'be lean' scenario.

RESIDENTIAL ENERGY CONSUMPTION AND CO₂ ANALYSIS (PART L1)

			VALIDATION CHECK		REGULATED ENERGY CONSUMPTION PER UNIT (kWh p.a.) - 'BE LEAN' SAP DER WORKSHEET																	REGULATED CO₂ EMISSIONS PER UNIT (kgCO₂ p.a.)									Fabric Energy Efficiency (FEE)
Unit identifier (e.g. plot number, dwelling type etc.)	Model total floor area (m²)	Number of units	Total area represented by model (m²)	Calculated DER (kgCO₂ / m²)	DER Worksheet DER (kgCO₂ / m²)	Space Heating (Heat Source 1)	Fuel type Space Heating	Domestic Hot Water (Heat Source 1)	Fuel type Domestic Hot Water	Space Heating (Heat source 2)	Fuel type Space Heating	Domestic Hot Water (Heat source 2)	Fuel type Domestic Hot Water	Space and Domestic Hot Water from CHP	Fuel type CHP	Total Electricity generated by CHP (-)	Fuel factors for electricity generated by CHP	Secondary Heating system	Fuel type Secondary Heating		Lighting	Auxiliary	Cooling	Space Heating	Domestic Hot Water	Space Heating and DHW from CHP	Electricity generated by CHP	Lighting	Auxiliary	Cooling	Electricity generated by renewable technology (notional building)	Part L 2021 CO₂ emissions (kgCO₂ p.a.)	Dwelling Fabric Energy Efficiency DFEE) (kWh/m²)
				DER Sheet [Row 304]	DER Sheet [Row 307c = (Row 307b x 0.01)]	Select fuel type	DER Sheet [Row 310c = (Row 307b x 0.01)]	Select fuel type	DER Sheet [Row 307c = (Row 307c x 0.01)]	Select fuel type	DER Sheet [Row 310c = (Row 307c x 0.01)]	Select fuel type	DER Sheet [Row 307c + 310c]	Select fuel type	DER Sheet [(Row 307c + 310c) + (Row 361 × 362)]	Select fuel type	DER Sheet Row 309	Select fuel type			DER Sheet Row 332	DER Sheet (Row 313 + 331)	DER Sheet Row 316		if applicable	if applicable						if applicable		

| Sum | 0 | 0 | 0.0 | - | 0 | N/A | 0 | N/A | 0 | N/A | 0 | N/A | 0 | N/A | 0 | 0 | 0 | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |

NON-RESIDENTIAL ENERGY CONSUMPTION AND CO₂ ANALYSIS (PART L2)

			VALIDATION CHECK		REGULATED ENERGY CONSUMPTION BY END USE (kWh/m² p.a.) 'BE LEAN' SOURCE: *SIM.CSV FILE								REGULATED CO₂ EMISSIONS BY FUEL TYPE (kgCO₂/m² p.a.) - BER BRUKL - SOURCE: *SIM.CSV FILE								
Building Use	Model Area (m²)	Number of units	Total area represented by model (m²)	Calculated BER (kgCO₂ / m²)	BRUKL BER (kgCO₂ / m²)	Space Heating (kWh/m² p.a.)	Fuel type Space Heating	Domestic Hot Water (kWh/m² p.a.)	Fuel type Domestic Hot Water	Lighting (kWh/m² p.a.)	Auxiliary (kWh/m² p.a.)	Cooling (kWh/m² p.a.)	Natural Gas	Grid Electricity	Bespoke DH Factor	Enter Carbon Factor 1	Enter Carbon Factor 2	Enter Carbon Factor 3	Electricity generated by renewable technology (notional building)	Part L 2021 CO₂ emissions (kgCO₂ p.a.)
																if applicable	if applicable	if applicable	if applicable	
1958.0	1	1958.0		8.1	8.1	22.49	Natural Gas	9.78	Natural Gas				6.13	3.8	2.44	7	2			-0.23538	15,414
				0.0																	
				0.0																	
				0.0																	
				0.0																	
				0.0																	
				0.0																	
				0.0																	
Sum	1	1,957	-	8.1	-	42,047	N/A	19,126	N/A	11,994	7,435	2,818	12,946	3,526	0	0	0	0	-460	15,414

SITE-WIDE ENERGY CONSUMPTION AND CO₂ ANALYSIS

				REGULATED ENERGY CONSUMPTION												REGULATED CO₂ EMISSIONS
	Total Area (m²)	Calculated BER (kgCO₂ / m²)	-	Space Heating (kWh p.a.)	N/A	Domestic Hot Water (kWh p.a.)	N/A	Space and Domestic Hot Water from CHP (kWh p.a.)	Secondary Heating System (kWh p.a.)	N/A	N/A	Electricity generated by CHP (kWh p.a.)	N/A	N/A	N/A	Part L 2021 CO₂ emissions (kgCO₂ p.a.)
													Lighting (kWh p.a.)	Auxiliary (kWh p.a.)	Cooling (kWh p.a.)	
Sum	1,957	8.1	-	42,047		19,126		0	0			0	11,994	7,435	2,818	15,414

The applicant should complete all the light blue cells including information on the 'be clean' energy consumption figures and the 'be clean' DER.

RESIDENTIAL ENERGY CONSUMPTION AND CO₂ ANALYSIS (PART L1)

Unit identifier (e.g. plot number, dwelling type etc.)	Model total floor area (m²)	Number of units	Total area represented by model (m²)	VALIDATION CHECK		REGULATED ENERGY CONSUMPTION PER UNIT (kWh p.a.) - 'BE GREEN' SAP DER WORKSHEET																			REGULATED CO₂ EMISSIONS PER UNIT (kgCO₂ p.a.)								
				Calculated DER (kgCO₂ / m²)	DER Worksheet DER (kgCO₂ / m²)	Space Heating (Heat Source 1)	Fuel type Space Heating	Domestic Hot Water (Heat Source 1)	Fuel type Domestic Hot Water	Space Heating (Heat source 2)	Fuel type Space Heating	Domestic Hot Water (Heat source 2)	Fuel type Domestic Hot Water	Space and Domestic Hot Water from CHP	Fuel type CHP	Total Electricity generated by CHP (-)	Fuel factors for electricity generated by CHP	Secondary Heating system	Fuel type Secondary Heating		Lighting	Auxiliary	Cooling	Space Heating	Domestic Hot Water	Space Heating and DHW from CHP	Electricity generated by CHP	Lighting	Auxiliary	Cooling	Electricity generated by renewable technology (notional building)	Part L 2021 CO₂ emissions (kgCO₂ p.a.)
					DER Sheet (Row 304)	DER Sheet [Row 307b + (Row 307x x 0.01)]	Select fuel type	DER Sheet [Row 310b + (Row 307b x 0.01)]	Select fuel type	DER Sheet [Row 307c + (Row 307x x 0.01)]	Select fuel type	DER Sheet [Row 310c + (Row 307x x 0.01)]	Select fuel type	DER Sheet [Row 307c + (Row 307x + 315b) + (Row 362 x 0.01)]	Select fuel type	DER Sheet [Row 307x + 315b) + (Row 361 + 362)]	Select fuel type	DER Sheet Row 329	Select fuel type		DER Sheet Row 332	DER Sheet (Row 313 + 331)	DER Sheet Row 315			if applicable	if applicable				if applicable	
Sum	**0**	**0**	**0.0**	**-**		0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	0	0	N/A	N/A	0	0	0	0	0	0	0	0	0	0	-460	**0**

NON-RESIDENTIAL ENERGY CONSUMPTION AND CO₂ ANALYSIS (PART L2)

Building Use	Model Area (m²)	Number of units	Total area represented by model (m²)	VALIDATION CHECK		REGULATED ENERGY CONSUMPTION BY END USE (kWh/m² p.a.) 'BE CLEAN' BER - SOURCE: BRUKL OUTPUT										REGULATED CO₂ EMISSIONS BY FUEL TYPE (kgCO₂/m² p.a.) - BER BRUKL - SOURCE: 'SIM.CSV FILE								
				Calculated BER (kgCO₂ / m²)	BRUKL BER (kgCO₂ / m²)	Space Heating (kWh/m² p.a.)	Fuel type Space Heating	Domestic Hot Water (kWh/m² p.a.)	Fuel type Domestic Hot Water					Electricity generated by CHP (-)			Lighting (kWh/m² p.a.)	Auxiliary (kWh/m² p.a.)	Cooling (kWh/m² p.a.)	Natural Gas	Grid Electricity	Bespoke DH Factor	Electricity generated by CHP (-)	Enter Carbon Factor 1	Enter Carbon Factor 2	Enter Carbon Factor 3	Electricity generated by renewable technology (notional building)	Part L 2021 CO₂ emissions (kgCO₂ p.a.)
															if applicable								if applicable	if applicable	if applicable	if applicable	if applicable	
1956.0	1	1956.6	8.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1	23.3	Natural Gas	9.9	Natural Gas					0			6.13	3.8	3.44	7	2						0	15,414
Sum	**1**	**1,957**	**8.1**	**-**		42,047	N/A	19,136	N/A					0			11,994	7,435	2,610	12,948	3,026	0	0	0	0	0	-460	**15,414**

SITE-WIDE ENERGY CONSUMPTION AND CO₂ ANALYSIS

	Total Area (m²)	Calculated BER (kgCO₂ / m²)	-	REGULATED ENERGY CONSUMPTION														REGULATED CO₂ EMISSIONS
				Space Heating (kWh p.a.)	N/A	Domestic Hot Water (kWh p.a.)	N/A	Space and Domestic Hot Water from CHP (kWh p.a.)	N/A	Secondary Heating System (kWh p.a.)	N/A	N/A	N/A	Electricity generated by CHP (kWh p.a.) if applicable	N/A	N/A	N/A	Part L 2021 CO₂ emissions (kgCO₂ p.a.)
															Lighting (kWh p.a.)	Auxiliary (kWh p.a.)	Cooling (kWh p.a.)	
Sum		**1,957**	**8.1**	**-**	42,047		19,136		0		0				0	11,994	7,435	2,610	**15,414**

The applicant should complete all the light blue cells including information on the 'be green' energy consumption figures and the 'be green' DER.

RESIDENTIAL ENERGY CONSUMPTION AND CO₂ ANALYSIS (PART L1)

			VALIDATION CHECK		REGULATED ENERGY CONSUMPTION PER UNIT (kWh p.a.) - 'BE GREEN' SAP DER WORKSHEET																	REGULATED CO₂ EMISSIONS PER UNIT (kgCO₂ p.a.)								
Unit identifier (e.g. plot number, dwelling, type etc.)	Model total floor area (m²)	Number of units	Total area represented by model (m²)	Calculated DER (kgCO₂ / m²)	DER Worksheet DER (kgCO₂ / m²)	Space Heating (Heat Source 1)	Fuel type Space Heating	Domestic Hot Water (Heat Source 1)	Fuel type Domestic Hot Water	Space Heating (Heat source 2)	Fuel type Space Heating	Domestic Hot Water (Heat source 2)	Fuel type Domestic Hot Water	Space and Domestic Hot Water from CHP	Fuel type CHP	Total Electricity generated by CHP (-)	Fuel factors for electricity generated by CHP	Secondary Heating system	Fuel type Secondary Heating	Electricity generated by renewable (-)	Lighting	Auxiliary	Cooling	Space Heating	Domestic Hot Water	Space Heating and DHW from CHP	Electricity generated by CHP	Lighting	Auxiliary	Cooling	Electricity generated by renewable	Part L 2021 CO₂ emissions (kgCO₂ p.a.)
Sum	0	0	0.0	-	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	0	0	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NON-RESIDENTIAL ENERGY CONSUMPTION AND CO₂ ANALYSIS (PART L2)

Use	Area per unit (m²)	Number of units	Total area represented by model (m²)	VALIDATION CHECK		REGULATED ENERGY CONSUMPTION BY END USE (kWh/m² p.a.) 'BE GREEN' BER - SOURCE: BRUKL OUTPUT														REGULATED CO₂ EMISSIONS BY FUEL TYPE (kgCO₂/m² p.a.) - BER BRUKL - SOURCE: *SIM.CSV FILE								
				Calculated BER (kgCO₂ / m²)	BRUKL BER (kgCO₂ / m²)	Space Heating (kWh/m² p.a.)	Fuel type Space Heating	Domestic Hot Water (kWh/m² p.a.)	Fuel type Domestic Hot Water	N/A	N/A	N/A	N/A	N/A	N/A	Electricity generated by CHP (-)	N/A	N/A	N/A	Electricity generated by renewable technology (-)	Lighting (kWh/m² p.a.)	Auxiliary (kWh/m² p.a.)	Cooling (kWh/m² p.a.)	Natural Gas	Grid Electricity	Bespoke DH Factor	Electricity generated by CHP (-)	Enter Carbon Factor 1	Enter Carbon Factor 2	Enter Carbon Factor 3	Electricity generated by renewable technology (-)	Part L 2021 CO₂ emissions (kgCO₂ p.a.)
	1956.0	1	1956.6	-3.2	-3.2	6.44	Grid Electricity	5.73	Grid Electricity												-46.70	5.99	3.97	1.2	0	3							-6.239
		0.0																															
Sum		1	1,957	-3.2	-	12,601	N/A	11,211	N/A							0				-91,491	11,728	7,768	2,348	0	6,208	0	0	0	0	0	-12,443	-6,239

SITE-WIDE ENERGY CONSUMPTION AND CO₂ ANALYSIS

	Total Area (m²)	Calculated BER (kgCO₂ / m²)	REGULATED ENERGY CONSUMPTION															REGULATED CO₂ EMISSIONS
			Space Heating (kWh p.a.)	N/A	Domestic Hot Water (kWh p.a.)	N/A	Space Heating (Heat source 2) (kWh p.a.)	N/A	Domestic Hot Water (Heat source 2) (kWh p.a.)	N/A	Space and Domestic Hot Water from CHP (kWh p.a.)	N/A	Electricity generated by CHP (kWh p.a.)	N/A	Secondary Heating system (kWh p.a.)	N/A	Electricity generated by renewable (kWh p.a.)	Lighting (kWh p.a.)	Auxiliary (kWh p.a.)	Cooling (kWh p.a.)	Part L 2021 CO₂ emissions
Sum	1,957	-3.2	-	12,601		11,211		0		0		0		0		0		-91,491	11,728	7,768	2,348	-6,239

Applicants can use the 'be seen' methodology or an alternative predictive energy modelling methodology to fill in this tab.
Where 'be seen' reporting is used the reported EUI and space heating demand should align with energy consumption data reported in the planning stage submission for the 'be seen' policy, submitted via the online webform.

Residential predicted energy use

Building type	GIA	EUI & space heating demand (kWh/year)									Has the following energy use been included?		Results		Table 4 of the guidance comparison		Methodology used		
		Space heating demand	Annual Electricity Use	Annual Gas Use	Annual Oil Use	Annual Biomass Use	Annual District Htg Use	Annual District Clg Use	Elec Generation, Gross	Solar Thermal Generation	Regulated	Unregulated	EUI (kWh/m²/year) (excluding renewable energy)	Space heating demand (kWh/m²/year) (excluding renewable energy)	EUI value from Table 4 of the guidance (kWh/m²/year) (excluding renewable energy)	Space heating demand from Table 4 of the guidance (kWh/m²/year) (excluding renewable energy)	Software	Operational energy use assessment	notes (if expected performance differs from the Table 4 values in the guidance or other software used)
					if applicable	if applicable	if applicable	if applicable	if applicable	if applicable									
Dwelling (total)																			
Landlord Circulation (in Residential Blocks)																			
Total	0	0	0	0	0	0	0	0	0	0									

Non-residential predicted energy use

Building type	GIA	EUI & space heating demand (kWh/year)									Has the following energy use been included?		Results		Table 4 of the guidance comparison		Methodology used		
		Space heating demand	Annual Electricity Use	Annual Gas Use	Annual Oil Use	Annual Biomass Use	Annual District Htg Use	Annual District Clg Use	Elec Generation, Gross	Solar Thermal Generation	Regulated	Unregulated	EUI (kWh/m²/year) (excluding renewable energy)	Space heating demand (kWh/m²/year) (excluding renewable energy)	EUI value from Table 4 of the guidance (kWh/m²/year) (excluding renewable energy)	Space heating demand from Table 4 of the guidance (kWh/m²/year) (excluding renewable energy)	Software	Operational energy use assessment	notes (if expected performance differs from the Table 4 values in the guidance or other software used)
					if applicable	if applicable	if applicable	if applicable	if applicable	if applicable									
All other non-residential	1956.6	9880.83	177522.318	0					101608		Yes	Yes	142.6609005	5.05	55	15	Part L2 - approved DSM	CIBSE TM54	Early stage design. To be reviewed at detailed design stage
Total	1956.6	9880.83	177522.318	0	0	0	0	0	101608	0									

Residential

Table 1: Carbon Dioxide Emissions after each stage of the Energy Hierarchy for residential buildings

	Carbon Dioxide Emissions for residential buildings (Tonnes CO_2 per annum)	
	Regulated	Unregulated
Baseline: Part L 2021 of the Building Regulations Compliant Development	0.0	
After energy demand reduction (be lean)	0.0	
After heat network connection (be clean)	0.0	
After renewable energy (be green)	0.0	

Table 2: Regulated Carbon Dioxide savings from each stage of the Energy Hierarchy for residential buildings

	Regulated residential carbon dioxide savings	
	(Tonnes CO_2 per annum)	(%)
Be lean: savings from energy demand reduction	0.0	0%
Be clean: savings from heat network	0.0	0%
Be green: savings from renewable energy	0.0	0%
Cumulative on site savings	**0.0**	**0%**
Annual savings from off-set payment	0.0	-
	(Tonnes CO_2)	
Cumulative savings for off-set payment	**0**	-
Cash in-lieu contribution (£)	**0**	

*carbon price is based on GLA recommended price of £95 per tonne of carbon dioxide unless Local Planning Authority price is inputted in the 'Development Information' tab

Non-residential

Table 3: Carbon Dioxide Emissions after each stage of the Energy Hierarchy for non-residential buildings

	Carbon Dioxide Emissions for non-residential buildings (Tonnes CO_2 per annum)	
	Regulated	Unregulated
Baseline: Part L 2021 of the Building Regulations Compliant Development	23.3	12.4
After energy demand reduction (be lean)	15.4	12.4
After heat network connection (be clean)	15.4	12.4
After renewable energy (be green)	-6.2	12.4

Table 4: Regulated Carbon Dioxide savings from each stage of the Energy Hierarchy for non-residential buildings

	Regulated non-residential carbon dioxide savings	
	(Tonnes CO_2 per annum)	(%)
Be lean: savings from energy demand reduction	7.9	34%
Be clean: savings from heat network	0.0	0%
Be green: savings from renewable energy	21.6	93%
Total Cumulative Savings	**29.5**	**127%**
Annual savings from off-set payment	-6.2	-
	(Tonnes CO_2)	
Cumulative savings for off-set payment	**-187**	-
Cash in-lieu contribution (£)	**-17,769**	

*carbon price is based on GLA recommended price of £95 per tonne of carbon dioxide unless Local Planning Authority price is inputted in the 'Development Information' tab

SITE-WIDE

	Total regulated emissions (Tonnes CO_2 / year)	CO_2 savings (Tonnes CO_2 / year)	Percentage savings (%)
Part L 2021 baseline	23.3		
Be lean	15.4	7.9	34%
Be clean	15.4	0.0	0%
Be green	-6.2	21.6	93%
Total Savings	-	29.5	127%
	-	CO_2 savings off-set (Tonnes CO_2)	-
Off-set	-	**-187.0**	-

	Target Fabric Energy Efficiency (kWh/m²)	Dwelling Fabric Energy Efficiency (kWh/m²)	Improvement (%)
Development total	0.00	0.00	

	Area weighted non-residential cooling demand (MJ/m²)	Total area weighted non-residential cooling demand (MJ/year)
Actual	96.2	37,518
Notional	33.7	13,143

EUI & space heating demand (predicted energy use)

Building type	EUI (kWh/m²/year) (excluding renewable energy)	Space heating demand (kWh/m²/year) (excluding renewable energy)	EUI value from Table 4 of the guidance (kWh/m²/year) (excluding renewable energy)	Space heating demand from Table 4 of the guidance(kWh/m²/year) (excluding renewable energy)	Methodology used (e.g. 'be seen' methodology or an alternative predictive energy modelling methodology)	Explanatory notes (if expected performance differs from the Table 4 values in the guidance)
Residential						
All other non-residential	142.6609005	5.05	55	15	Part L2 - approved DSM & CIBSE TM54	Early stage design. To be reviewed at detailed design stage