

Energy Strategy report / studies

Definition

The aim of this study is to assess the feasible carbon emission reductions through building fabric, efficient services and low or zero carbon technologies AND meet the 20% carbon renewables target. This type of report demonstrates how the site has followed the London Plan's energy hierarchy by reducing energy demand through passive design, energy efficiency measures and generating renewable energy to further reduce the overall carbon emissions of the development.

Methodology

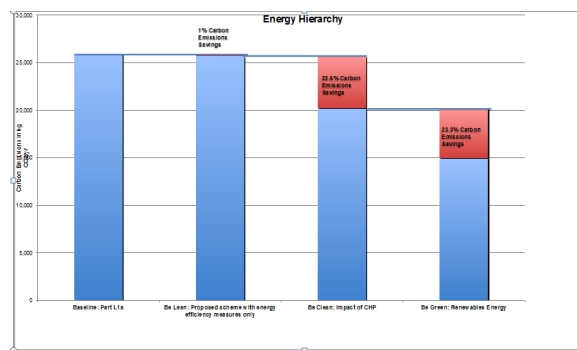
The methodology followed in this type of report follows the guidance set out by the Greater London Authority (GLA) for developing energy strategies as detailed on the following "GLA Energy Team Guidance on Planning Energy Assessments", 2011.

Energy consumption figures are based on SAP modelling data produced under Building Regulations Part L compliant software (SAP 2012). Analysis of the dwellings has been undertaken to demonstrate compliance with the Building Regulations Part L1a 2013. The baseline scenario in this study is if the dwellings were enhanced to PartL1a standards, or the Target Emission Rate (TER). Energy savings shown in this report are for Regulated emissions. The methodology for calculating the baseline was discussed with Celesti Giuste of the London Plan energy guidance.

These findings are subject to detailed analysis from a services engineer and quantity surveyor.

Objective

- Minimise energy demand
- Use energy efficiently
- Supply energy from renewable sources
- To measure the energy efficiency of a project
- To compare different solutions for the same project to see which one is more energy efficient and why



Area	TER CO2	Lean CO2	Clean CO2	Green CO2	TER CO2	Lean CO2	Clean CO2	Green CO2	
a1	97.70	1,913.94	1,755.67	1,392.23	1,098.15	19.59	17.97	14.25	11.24
a2	57.00	1,060.20	1,031.70	811.11	620.73	18.60	18.10	14.23	10.89
a3	60.80	1,227.55	1,194.72	938.14	686.43	20.19	19.65	15.43	11.29
a4	60.80	1,227.55	1,194.72	938.14	686.43	20.19	19.65	15.43	11.29
a5	74.40	1,479.62	1,455.26	1,146.50	831.05	19.89	19.56	15.41	11.77
a6	63.80	1,113.95	1,083.96	855.56	655.23	17.46	16.99	13.41	10.27
a7	54.50	900.89	893.59	731.39	479.60	16.53	17.13	13.42	8.80
a8	61.10	1,044.81	1,031.98	813.85	625.05	17.10	16.89	13.32	10.23
a9	57.20	889.46	878.59	689.83	503.36	15.55	15.36	12.06	8.80
a10	32.00	547.20	540.48	426.24	327.36	17.10	16.89	13.32	10.23
a11	83.80	1,503.49	1,451.47	1,141.04	901.93	17.92	17.30	13.60	10.75
a12	63.80	1,113.95	1,083.96	855.56	655.23	17.46	16.99	13.41	10.27
a13	54.60	902.54	895.30	732.73	480.48	16.53	17.13	13.42	8.80
a14	61.20	1,046.52	1,033.67	815.18	626.08	17.10	16.89	13.32	10.23
a15	57.10	887.91	877.06	688.63	502.48	15.55	15.36	12.06	8.80
a16	60.90	1,041.30	1,028.60	811.19	623.01	17.10	16.89	13.32	10.23
a17	84.00	1,505.28	1,453.20	1,142.40	903.00	17.92	17.30	13.60	10.75
a18	49.30	1,103.33	1,102.00	900.22	648.79	22.38	23.57	18.38	13.16
a19	58.60	1,242.91	1,317.91	1,029.02	712.58	21.21	22.49	17.56	12.16
a20	65.70	1,483.14	1,451.31	1,137.92	821.91	22.27	22.09	17.32	12.51
a21	69.20	1,496.60	1,476.34	1,159.79	842.16	21.63	21.32	16.76	12.17
a22	52.40	1,254.46	1,320.48	1,016.56	700.59	23.94	25.20	19.40	13.37
SUMs	1,388.00	25,967.07	25,690.98	20,173.24	14,931.61				