

Appendix E

Baseline

Compliance with Part L1a of the Building Regulations Alone

	Sample 1 - Unit 3		Sample 2 - Unit 5		Sample 3 - Unit 9		Average	
	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)
Baseline	6316.830	1.220	6936.790	1.355	5107.110	0.984	6120.243	1.186

Be Lean

Improvements from Fabric Performance

	Sample 1 - Unit 3		Sample 2 - Unit 5		Sample 3 - Unit 9		Average	
	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)
Baseline	6316.830	1.220	6936.790	1.355	5107.110	0.984	6120.243	1.186
Lean	6173.640	1.192	6448.870	1.265	4908.570	0.942	5843.693	1.133
% Improvement	2.27	2.27	7.03	6.63	3.89	4.28	4.52	4.49

Be Lean & Clean

Additional Improvements from Efficient Services

	Sample 1 - Unit 3		Sample 2 - Unit 5		Sample 3 - Unit 9		Average	
	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)
Baseline	6316.830	1.220	6936.790	1.355	5107.110	0.984	6120.243	1.186
Lean + Clean	6173.640	1.192	6448.870	1.265	4908.570	0.942	5843.693	1.133
% Improvement	2.27	2.27	7.03	6.63	3.89	4.28	4.52	4.49

Be Lean, Clean & Green

Additional Improvements from Renewable Technology

	Sample 1 - Unit 3		Sample 2 - Unit 5		Sample 3 - Unit 9		Average	
	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)	Energy Demand (kWh/yr)	CO ₂ Emissions (tonnes CO ₂ per annum)
Baseline	6316.830	1.220	6936.790	1.355	5107.110	0.984	6120.243	1.186
Lean + Clean + Green	4475.340	0.861	4589.730	0.874	3030.710	0.576	4031.927	0.771
% Improvement	29.15	29.37	33.83	35.47	40.66	41.48	34.12	35.04

Unregulated Emissions

Emissions from Sources not Regulated under L1A of the Building Regulations

	Sample 1 - Unit 3	Sample 2 - Unit 5	Sample 3 - Unit 9	Average
Unregulated Emissions (Tonnes CO ₂ / annum)	1.15	1.10	0.79	1.01

Cumulative Emission & Savings

Carbon Dioxide Emissions	Tonnes CO ₂ / annum	
	Regulated	Unregulated
Baseline: Part L 2013	1.19	1.01
After energy demand reduction	1.13	1.01
After CHP / Community Heating	1.13	1.01
After renewable energy	0.77	1.01

Regulated Carbon dioxide savings	Tonnes CO ₂ / annum	%
Savings from energy demand reduction	0.05	4.49
Savings from CHP / Community Heating	0.00	0.00
Savings from renewable energy	0.36	30.56
Total Cumulative Savings	0.42	35.04
Total Target Savings	0.42	35.00
Annual Surplus	0.00	