



OVERALL CARBON EMISSION REDUCTION

The overall carbon dioxide emissions and reduction for the domestic, non-domestic and overall development from the energy strategy produced are as follows:

Domestic

	CO ₂ Emissions (Tonnes per annum)
	Regulated
Baseline Building Regulations 2013 / Part L Compliant Development	140.77
After passive/low energy (energy demand) reduction	118.41
After renewable energy	91.05

	Regulated CO ₂ Savings	
	Tonnes per annum	%
Savings from passive/low energy (energy demand) reduction	22.36	15.88
Savings from renewable energy	27.36	23.11
Total Cumulative Savings	49.72	35.32

	Annual Shortfall (Tonnes CO ₂)	Cumulative Shortfall (Tonnes CO ₂)
Annual shortfall from carbon target	91.05	2731

Non-domestic

	CO ₂ Emissions (Tonnes per annum)
	Regulated
Baseline Building Regulations 2013 / Part L Compliant Development	145.51
After passive/low energy (energy demand) reduction	109.56

	Regulated CO ₂ Savings	
	Tonnes per annum	%
Savings from passive/low energy (energy demand) reduction	35.95	24.71
Total Cumulative Savings	35.95	24.71

	Annual Shortfall (Tonnes CO ₂)	Cumulative Shortfall (Tonnes CO ₂)
Annual shortfall from carbon target	14.98	449.4

**Overall Development**

	CO₂ Emissions (Tonnes per annum)
	Regulated
Baseline Building Regulations 2013 / Part L Compliant Development	286.28
After passive/low energy (energy demand) reduction	227.97
After renewable energy	200.61

	Regulated CO₂ Savings	
	Tonnes per annum	%
Savings from passive/low energy (energy demand) reduction	58.31	20.37
Savings from renewable energy	27.36	11.98
Total Cumulative Savings	85.67	29.93

	Annual Shortfall (Tonnes CO₂)	Cumulative Shortfall (Tonnes CO₂)
Annual shortfall from carbon target	106.03	3180.9