

Energy Demand and CO2 Emissions Reduction per year – Providing Internal Wall Insulation and Ground Floor Insulation

	Regulated CO2 Emissions (kgCO2/yr)	CO2 saved	% CO2 Reduction
Baseline energy demand and emissions Building Regulations Part L compliance (equivalent to the Target Emissions Rate TER for new build, or building regulations compliant BER for existing buildings)	3900		
Proposed scheme after energy efficiency measures	2100	1800	$1800/3900 \times 100 =$ 46.15%
Proposed scheme after energy efficiency measures and CHP (if suitable for the development) or non-renewable district heating – ‘residual emissions’			
Proposed scheme after renewables			
Total CO2 reduction beyond baseline emissions			46.15%

	Regulated Energy Demand (kW/yr)	Kw/yr saved	% Kw/y Reduction
Baseline energy demand and emissions Building Regulations Part L compliance (equivalent to the Target Emissions Rate TER for new build, or building regulations compliant BER for existing buildings)	$12762.0 + 2345.0 =$ 15107.0		
Proposed scheme after energy efficiency measures	8054	7053	$7053/15107 \times 100 =$ 46.69%
Proposed scheme after energy efficiency measures and CHP (if suitable for the development) or non-renewable district heating – ‘residual emissions’			
Proposed scheme after renewables			
Total CO2 reduction beyond baseline emissions			46.69%