

Existing Heating Characteristics			
Heating System		Energy	Efficiency (%)
Primary Heating System	Oil boiler, primary pipework insulated	Oil	70%
Secondary Heating System	Open Fire	Manufactured Smokeless Fuel	
Domestic Hot Water	Heated with Primary heating system and immersion	Oil	70%
Cylinder	Cylinder with manufactured jacket (30mm)		
Controls	Radiator Controls		

Domestic Retrofit Guidelines (Step by Step)						
Proposed Interventions		Energy saving (kWh/m ² /yr)	Revised energy rating (kWh/m ² /yr)	Revised BER Rating	Annual energy saving (kWh/yr)	CO ₂ savings/yr (kg)
1	Upgrade Existing Windows to Achieve Minimum U-Value of ≤ 0.73 W/m ² K	38.94	233.31	D1	5,185.64	1270
2	Upgrade Existing Rear Door to Achieve Minimum U-Value of ≤ 1.40 W/m ² K	2.52	230.79	D1	335.59	82
3	Upgrade Existing Cavity Wall to Achieve Minimum U-Value of ≤ 0.20 W/m ² /K	29.78	201.01	C3	3,965.80	972
4	Install 300mm Insulation on Flat Ceiling	18.84	182.17	C2	2,508.92	615
5	Install Air To Water Heat Pump (HP) - Upgrade Heating Controls & Hot Water to Full Time & Temperature Control	107.50	74.67	A3	14,315.78	3507
6	Install 2kW Photovoltaic system	28.34	46.33	A2	3,774.04	925
	Overall kWh/m ² /yr Savings Potential	225.92				

	Heat Loss Indicator post works (HLI)	1.62	W/K			
	BER Uplift	225.92	kWh/m ² /yr,			

*Upgrades 1-5 are required before a Heat Pump (HP) can be installed. The Heat Loss Indicator must be ≤ 2 to qualify for grant assistance for HP installation

Estimated Costs Summary			
Measures		Estimated Costs (€/m ²)/Unit	Estimated Total Costs (€)
1	Windows Upgrade	€495.00	€14,850.00
2	Doors Upgrade		€2,200.00
3	Wall Insulation Upgrade		€23,495.00
4	Roof Insulation Upgrade		€1,845.00
5*	Heating Upgrade (Primary)	(System)	€18,700.00
6	Install 2kW PV system	2KW (System)	€5,500.00
Total to achieve A2			€65,490.00
VAT @ 13.5%			€8,841.15
Subtotal			€74,331.15
PM Fee			€4,584.30
Total Build Costs			€78,915.45
ESTIMATED SEAI Grant @ 30% for participation in BEC Scheme			€23,674.63
Value of Energy Credits			€2,071.00
Total Cost to Homeowner including 30% Grant funding and Energy Credits			€53,169.82

*Minimum uplift required from Better Energy Community Grant Scheme

Savings Summary					
BER Rating	Energy Use (kWh/m ² /yr)	Energy Savings (kWh/yr)	Cost Savings (€/yr)*	Simple Payback, including Grant Funding (years)	CO2 Savings (kg)
Current D2	272.25	()	0.00	-	
A3	32.33	30,087	€2,758.98	19.3	7371

*Based on Home Heating oil replacement @€0.0917/kWh