


# Detached House, built 1996

Total Building Area (m2): 107

					
	BER Rating	Energy Value	Potential Energy Savings	Total Annual Space Heating	Space Heating costs per year
		(kWh/m2/yr)	€	kWh/yr	€/yr
Dwelling Current Condition	C3	213.50	-	22,845	€2,581.43
Dwelling Post Works	A3	59.53	€1,795.90	6,369	€785.53
CO2 Savings per year 5.3 Tonnes					
Equivalent Planted Trees	379	Trees			

## RECOMMENDED WORKS

Item	Recommendation	kWh/m <sup>2</sup> /yr	BER	MEDIAN Cost Nett Grant [1]
<b>New windows with a u value of 1.2</b> <b>New Door with a u value of 1.5</b>	New windows double glazing with a u-value of 1.4 W/m2K New external doors with a U-value of 1.4 W/m2K	200.55	E2	€9,200
<b>Roof</b>	Insulation Pitched at ceiling .16 W/m2K and on slope .20 W/m2K, and room in roof on side 0.20 W/m2K, and on flat roof .22 w/m2K.	162.65	D1	€992
<b>Walls</b>	to 0.35 W/m2K average U-Value	119.05	C3	€15,800
<b>Heating system and Controls</b>	Install full time and temperature controls with 3 zones two heating and one HW. Install and air to water HP with a Seasonal Space Heating Efficiency, $\eta_s$ / SCOP/A of 175 minimum and Water Heating Efficiency, $\eta_{wh}$ 125 minimum. HW cylinder taken as 200L with a Declared loss of 1.5 KWH/day. As part of this upgrade, we have allowed for the blocking up of any and all open fires	59.53	A3	€9,100
<b>TOTAL COST €</b>				€35,092
<b>SIMPLE PAYBACK YRS</b>				19.54

[1] These costs are net of SEAI and are based on a SEAI survey of actual retrofit works carried out by certified contractors in 2024

The house pictured is not the actual home surveyed, but it has the same characteristics