

**Figure 3:** Results for House type 1 (3 bed end terrace, solid wall construction)

Green Deal measure	Existing	Upgrade required	Energy saved (kWh/yr)		Lifetime of measure (years)	Capital cost	Payback at (years) differing interest rates (%)			
			Electricity	Gas			6	3	9	12
Internal wall insulation	None	Plasterboard drylining with 85mm insulation to achieve U-value of 0.35 W/m <sup>2</sup>	5,617	0	15 (5 - 7 for paint)	£1,509	<b>3</b>	3	3	3
External wall insulation	None	Sto external render on rails with 90mm insulation to achieve U-value of 0.35 W/m <sup>2</sup> K	5,617	0	30 - 40	£5,339	<b>14</b>	12	17	21
Loft insulation	25mm	270mm of mineral wool to achieve U-value of 0.16 W/m <sup>2</sup> K	2,357	0	40 - 50	£829	<b>4</b>	4	4	5
Ground floor insulation	None	10mm rigid board insulation with 75mm screed to achieve U-value of 0.24 W/m <sup>2</sup> K	628	0	40 - 50	£2,013	-	-	-	-
Glazing	Single	Double glazing to achieve U-value of 1.8 W/m <sup>2</sup> K	840	0	20 - 30	£5,336	-	-	-	-
Draughtproofing	None	Add: Gapseal floorboard filler Snake draft excluders Ecoflap Chimney balloons	512	0	5 - 10 (20 if they carry the Red Kite mark)	£256	<b>6</b>	5	6	7
Tank insulation	None	Add 38mm jacket	1,081	0	30 - 40	£14	<b>1</b>	1	1	1
Heating system	Electric storage heaters	Replace whole heating system (install >boiler (>90% efficiency), pipework and radiators)	22,002	-28,700	Mini 15	£5,500	<b>6</b>	5	7	8
Heating controls	None	Advanced controls ie. automatic controls, time switches etc.	3,291	0	15 - 20	£600	<b>2</b>	2	2	2

**Modelling assumptions**

- SAP 2009 compliant software was used to calculate the indicative energy savings
- The Green Deal Finance Company (GDFC) can offer loans at 6% interest rate up to 25 years (to investigate the impact of this the results demonstrate the payback based on differing interest rates)
- Cost data is based on Q3, 2011 prices (excluding VAT) and include equipment, labour and plant. Where relevant, the costs account for bulk purchasing power (this assumption isn't applied to the smaller DIY measures)
- The energy saved and payback period shown assumes that no other upgrades are undertaken at the same time.