

## Energy Saving Trust Annual Insulation Savings & Paybacks Update 2011/2012

The Energy Saving Trust has now completed its annual review and update of measure costs, savings and paybacks. This review is undertaken each year to ensure that the messages used in our marketing activity and communications are as up to date and accurate as possible. It has been slightly delayed this year while awaiting the release of the latest greenhouse emissions factors and fuel price increases.

As always, we use a gas heated three bed semi detached home as the typical UK dwelling. Energy savings are derived from CERT data. In line with last year, all insulation savings include a reduction factor for comfort taking.

The most recent fuel price increases have been included in this year's savings figures. 2010. Average gas prices now currently stand at 4.49p/kWh and average electricity prices at 14.39p/kWh.

The loft top up saving is changing to a base of 100mm of insulation already visible, as opposed to 50mm. This assumption and saving is more appropriate to homes in the UK now and is evidenced through Home Condition Surveys.

Cavity wall and full loft insulation savings will be quoted as 'up to' to reflect the evidence from DECC's NEED analysis which shows actual savings could be less than modelled savings.

To re-cap, the average installation costs, paybacks and savings for insulation measures in **2010/2011** were:

Measure	Annual Saving (£/yr)	Installed Cost £	Installed Payback	DIY Cost £	DIY Payback
Loft Insulation (0-270mm)	Around £145	Around £250	Around 2 yrs	£50 – £350	Less than a year-3 yrs
Loft Insulation (50-270mm)	Around £40	Around £250	Around 6 yrs	£50 – £350	1 - 9 years
Cavity Wall Insulation	Around £110	Around £250	Around 2 yrs	-	-
Internal wall insulation <sup>1</sup>	Around £365	£5,500 – £8,500	-	-	-
External wall insulation <sup>2</sup>	Around £385	£10,500 - £14,500	-	-	-
Draught proofing	Around £25	Around £100	Around 4 yrs	Around £100	Around 4 yrs
Floor insulation <sup>3</sup>	Around £50	Around £1,900	-	Around £100	Around 2 yrs
Hot water tank jacket	Around £35	-	-	£15	5 months

<sup>1</sup> Assumes insulating internally to a u-value of 0.45 W/m<sup>2</sup>K. Installed cost is a typical **total** cost for insulating solid walls

<sup>2</sup> Assumes insulating to a u-value of 0.35 W/m<sup>2</sup>K. Installed cost is a typical **total** cost for insulating solid walls

<sup>3</sup> DIY cost represents the cost of the insulation only

The proposed installation costs, paybacks and savings for insulation measures in **2011/2012** are:

Measure	Annual Saving (£/yr)	Installed Cost £	Installed Payback	DIY Cost £	DIY Payback
Loft Insulation (0-270mm)	Up to £175	£100-£350	Less than 2 yrs	£50 – £350	Less than 2 yrs
Loft Insulation (50-270mm)	Around £50	£100-£350	2-7 yrs	£50-£350	1-7 yrs
Loft Insulation (100-270mm)	Around £25	£100-£350	4-13 yrs	£50 – £350	2-13 years
Cavity Wall Insulation	Up to £135	£100-£350	1-3 yrs	-	-
Internal wall insulation <sup>1</sup>	Around £445	£5,500 – £8,500	-	-	-
External wall insulation <sup>2</sup>	Around £475	£10,500 - £14,500	-	-	-
Draught proofing	Around £30	Around £120	Around 4 yrs	Around £100	Around 4 yrs
Floor insulation <sup>3</sup>	Around £60	Around £770	-	Around £100	Around 2 yrs
Hot water tank jacket	Around £40	-	-	£15	4 months

<sup>1</sup> Assumes insulating internally to a u-value of 0.45 W/m<sup>2</sup>K. Cost is for a single property and includes cost for materials, installation time, preparatory work, and work at the end to replace fixtures and fittings, and redecorate where needed (a.k.a. 'making good').

<sup>2</sup> Assumes insulating externally to a u-value of 0.35 W/m<sup>2</sup>K. Cost is for a single property and includes cost for materials, installation time, scaffolding and preparatory work, and work at the end to replace gutters and pipes, and redecorate where needed (a.k.a. 'making good').

<sup>3</sup> DIY cost represents the cost of the insulation only. Professional cost is taken from m<sup>2</sup> cost from EST Housing Energy Model

The EST website will carry the following statement on costs / paybacks:-

*The costs and paybacks shown are approximate, are provided for illustrative purposes only and are based on a gas heated semi-detached house with 3 bedrooms. The savings are the same as those used for CERT, assume a gas price of 4.49p/kWh and include a reduction factor for comfort taking.*

*Installed costs and paybacks assume that installation is undertaken by a professional installer, unless otherwise stated, and both loft and cavity wall insulation costs include a subsidy which can be obtained under CERT. The total, unsubsidised cost of installing either loft or cavity wall insulation is typically around £500.*

A variety of [grants and offers](#) are available from the government, local authorities and energy suppliers.

Additionally we have an [assumptions page](#) on our website where this information and other savings for energy efficiency measures can be seen.

These savings will be going live on the Energy Saving Trust's web pages from October 2011.

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