Energy Performance Certificate (EPC)



Parkview Cottages, 2, West Calder, EH55 8RQ

Dwelling type:

Mid-terrace house

Date of assessment: Date of certificate:

31 May 2013 31 May 2013

Total floor area:

61 m²

Reference number:

Type of assessment:

Primary Energy Indicator: Main heating and fuel:

0142-2249-5453-9677-0665 RdSAP, existing dwelling

212 kWh/m²/year

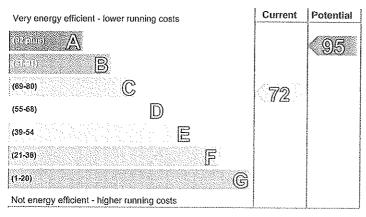
Boiler and radiators, oil

You can use this document to:

- Compare current ratings of properties to see which are more energy efficient and environmentally friendly
- Find out how to save energy and money and also reduce CO₂ emissions by improving your home

Estimated energy costs for your home for 3 years' \$1,920	ីប្រែស្វេសព្រ ខេត្តសារណ៍ខ្មាត់ខ្មែរព្រំព្រះ
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 $[^]st$ based upon the cost of energy for heating, hot water, lighting and ventilation, calculated using standard assumptions

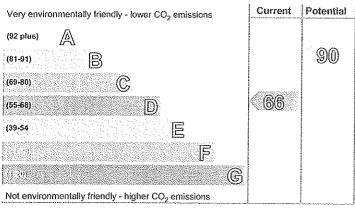


Energy Eilleteney Rading

This graph shows the current efficiency of your home. taking into account both energy efficiency and fuel costs. The higher this rating, the lower your fuel bills are likely to be.

Your current rating is band C (72). The average rating for a home in Scotland is band D (61).

The potential rating shows the effect of undertaking all of the improvement measures listed within your recommendations report.



Environmentalinosek (80)) i kalim

This graph shows the effect of your home on the environment in terms of carbon dioxide (CO₂) emissions. The higher the rating, the less impact it has on the environment.

Your current rating is band D (66). The average rating for a home in Scotland is band D (59).

The potential rating shows the effect of undertaking all of the improvement measures listed within your recommendations report.

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Recommended measures	Indicative cost	Typical savings over 3 years	Available with Green Deal
1 Low energy lighting	£50	£84	
2 Heating controls (room thermostat)	£350 - £450	£93	
3 Condensing boiler	£2,200 - £3,000	£153	

A full list of recommended improvement measures for your home, together with more information on potential cost and savings and advice to help you carry out improvements can be found in your recommendations report.



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Summary of the energy performance related teatures of this home

This table sets out the results of the survey which lists the current energy-related features of this home. Each element is assessed by the national calculation methodology; 1 star = very poor (least efficient), 2 stars = poor, 3 stars = average, 4 stars = good and 5 stars = very good (most efficient). The assessment does not take into consideration the condition of an element and how well it is working. 'Assumed' means that the insulation could not be inspected and an assumption has been made in the methodology, based on age and type of construction.

Element	Description	Energy Efficiency	Environmental
Walls	Cavity wall, with internal insulation System built, as built, partial insulation (assumed)	***	***
	Cavity wall, as built, insulated (assumed)	****	****
Roof	Pitched, insulated at rafters Roof room(s), insulated	****	****
Floor	Suspended, insulated		Materials.
Windows	Fully double glazed	****	****
Main heating	Boiler and radiators, oil	***	***
Main heating controls	Programmer, TRVs and bypass	***	***
Secondary heating	Room heaters, wood logs		
Hot water	From main system	***	***
Lighting	No low energy lighting	★☆☆☆★	**

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Your Energy Efficiency Rating is calculated using the standard UK methodology, RdSAP. This calculates energy used for heating, hot water, lighting and ventilation and then applies fuel costs to that energy use to give an overall rating for your home. The rating is given on a scale of 1 to 100. Other than the cost of fuel for electrical appliances and for cooking, a building with a rating of 100 would cost almost nothing to run.

As we all use our homes in different ways, the energy rating is calculated using standard occupancy assumptions which may be different from the way you use it. The rating also uses national weather information to allow comparison between buildings in different parts of Scotland. However, to make information more relevant to your home, local weather data is used to calculate your energy use, CO₂ emissions, running costs and the savings possible from making improvements.

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One of the biggest contributors to global warming is carbon dioxide. The energy we use for heating, lighting and power in our homes produces over a quarter of the UK's carbon dioxide emissions. Different fuels produce different amounts of carbon dioxide for every kilowatt hour (kWh) of energy used. The Environmental Impact Rating of your home is calculated by applying these 'carbon factors' for the fuels you use to your overall energy use.

The average Scottish household produces about 6 tonnes of carbon dioxide every year. Based on this assessment, heating and lighting this home currently produces approximately 2.9 tonnes of carbon dioxide every year. Adopting recommendations in this report can reduce emissions and protect the environment. If you were to install all of these recommendations this could reduce emissions by 1.8 tonnes per year. You could reduce emissions even more by switching to renewable energy sources.

Estimated analygy sosts for this home

FANALUS ALANAMAN AND AND AND AND AND AND AND AND AND A	Current energy costs	Potential energy costs	Potential future savings
Heating	£1,314 over 3 years	£1,092 over 3 years	
Hot water	£381 over 3 years	£270 over 3 years	You sould
Lighting	£225 over 3 years	£111 over 3 years	5:379 \$447
Tota	ils £1,920	£1,473	e) Vel # 3 Versike

These figures show how much the average household would spend in this property for heating, lighting and hot water. This excludes energy use for running appliances such as TVs, computers and cookers, and the benefits of any electricity generated by this home (for example, from photovoltaic panels). The potential savings in energy costs show the effect of undertaking all of the recommended measures listed below.

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The measures below will improve the energy and environmental performance of this dwelling. The performance ratings after improvements listed below are cumulative; that is, they assume the improvements have been installed in the order that they appear in the table. Further information about the recommended measures and other simple actions to take today to save money is available from your local Energy Saving Scotland advice centre which can be contacted on 0800 512 012. Before carrying out work, make sure that the appropriate permissions are obtained, where necessary. This may include permission from a landlord (if you are a tenant) or the need to get a Building Warrant for certain types of work.

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1	Low energy lighting for all fixed outlets	£50	£28	© 73	⟨D 67	AT TAKEN PA COLLEGE PARKS
2	Upgrade heating controls	£350 - £450	£31	C 75	(C 69	:
3	Replace boiler with new condensing boiler	£2,200 - £3,000	£51	C 77	⟨© 72	1.52
4	Solar water heating	£4,000 - £6,000	£39	C 78	C74	
5	Solar photovoltaic panels, 2.5 kWp	£9,000 - £14,000	£204	⟨B 91	B 86	
6	Wind turbine	£1,500 - £4,000	£81	(A 95	B 90	

Measures which have a green deal tick are likely to be eligible for Green Deal finance plans based on indicative costs. Subsidy also may be available for some measures, such as solid wall insulation. Additional support may also be available for certain households in receipt of means tested benefits. Measures which have an orange tick may need additional finance. To find out how you could use Green Deal finance to improve your property, visit www.energysavingtrust.org.uk/scotland or contact the Scotlish Green Deal advice service at your local Energy Saving Scotland advice centre on 0800 512 012.

Alternative measures

There are alternative improvement measures which you could also consider for your home. It would be advisable to seek further advice and illustration of the benefits and costs of such measures.

- Biomass boiler (Exempted Appliance if in Smoke Control Area)
- Air or ground source heat pump
- Micro CHP
- Cavity, internal or external wall insulation

Choosing the right improvement package

energy° saving trust

For free and impartial advice on choosing suitable measures for your property, contact your local Energy Saving Scotland advice centre on 0800 512 012 or go to www.energysavingtrust.org.uk/scotland.

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This section offers additional information and advice on the recommended improvement measures for your home

1 Low energy lighting

Replacement of traditional light bulbs with energy saving recommended ones will reduce lighting costs over the lifetime of the bulb, and they last up to 12 times longer than ordinary light bulbs. Also consider selecting low energy light fittings when redecorating; contact the Lighting Association for your nearest stockist of Domestic Energy Efficient Lighting Scheme fittings.

2 Heating controls (room thermostat)

The heating system should have a room thermostat to enable the boiler to switch off when no heat is required. A competent heating engineer should be asked to do this work. Insist that the thermostat switches off the boiler as well as the pump and that the thermostatic radiator valve is removed from any radiator in the same room as the thermostat. Building regulations generally apply to this work and a building warrant may be required, so it is best to obtain advice from your local authority building standards department and from a qualified heating engineer.

3 Condensing boiler

A condensing boiler is capable of much higher efficiencies than other types of boiler, meaning it will burn less fuel to heat this property. This improvement is most appropriate when the existing central heating boiler needs repair or replacement, however there may be exceptional circumstances making this impractical. Condensing boilers need a drain for the condensate which limits their location; remember this when considering remodelling the room containing the existing boiler even if the latter is to be retained for the time being (for example a kitchen makeover). Building regulations generally apply to this work and a building warrant may be required, so it is best to obtain advice from your local authority building standards department and from a qualified heating engineer.

4 Solar water heating

A solar water heating panel, usually fixed to the roof, uses the sun to pre-heat the hot water supply. This can significantly reduce the demand on the heating system to provide hot water and hence save fuel and money. Planning permission might be required, building regulations generally apply to this work and a building warrant may be required, so it is best to check these with your local authority. You could be eligible for Renewable Heat Incentive payments which could appreciably increase the savings beyond those shown on your EPC, provided that both the product and the installer are certified by the Microgeneration Certification Scheme (or equivalent). Details of local MCS installers are available at www.microgenerationcertification.org.

5 Solar photovoltaic (PV) panels

A solar PV system is one which converts light directly into electricity via panels placed on the roof with no waste and no emissions. This electricity is used throughout the home in the same way as the electricity purchased from an energy supplier. Planning permission might be required, building regulations generally apply to this work and a building warrant may be required, so it is best to check these with your local authority. The assessment does not include the effect of any Feed-in Tariff which could appreciably increase the savings that are shown on this EPC for solar photovoltaic panels, provided that both the product and the installer are certified by the Microgeneration Certification Scheme (or equivalent). Details of local MCS installers are available at www.microgenerationcertification.org.

6 Wind turbine

A wind turbine provides electricity from wind energy. This electricity is used throughout the home in the same way as the electricity purchased from an energy supplier. Wind turbines are not suitable for all properties. The system's effectiveness depends on local wind speeds and the presence of nearby obstructions, and a site survey should be undertaken by an accredited installer. Planning permission might be required and building regulations generally apply to this work and a building warrant may be required, so it is best to check these with your local authority. The assessment does not include the effect of any Feed-in Tariff which could appreciably increase the savings that are shown on this EPC for a wind turbine, provided that both the product and the installer are certified by the Microgeneration Certification Scheme (or equivalent). Details of local MCS installers are available at www.microgenerationcertification.org.

Konysthersoro enghour anorgy sources

Low and zero carbon (LZC) energy sources are sources of energy that release either very little or no carbon dioxide into the atmosphere when they are used. Installing these sources may help reduce energy bills as well as cutting carbon.

LZC energy sources present:

Biomass secondary heating

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For most homes, the vast majority of energy costs come from heating the home. Where applicable to your home, the table below shows the energy that could be saved by insulating the attic and walls, based upon the typical energy use for this building. Numbers shown in brackets are the reduction in energy use possible from each improvement measure.

Heat demand	Existing dwelling	Impact of loft insulation	Impact of cavity wall insulation	Impact of solid wall insulation
Space heating (kWh per year)	5,834	(142)	N/A	N/A
Water heating (kWh per year)	1,882			

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This dwelling is a system built property or some of its walls are of non-conventional construction and requires further investigation to establish the type of construction, the type of wall insulation best suited (cavity insulation or internal/external insulation) and the savings it might deliver. Please contact your local Energy Saving Scotland advice centre on 0800 512 012 to find out more.

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The Energy Performance Certificate and Recommendations Report for this dwelling were produced following an energy assessment undertaken by an assessor accredited by Elmhurst, an Approved Organisation appointed by Scottish Ministers. The certificate has been produced under the Energy Performance of Buildings (Scotland) Regulations 2008 from data lodged to the Scottish EPC register.

Assessor's name: Mr. Roderick MacDonald

Assessor membership number: EES/009377

Company name/trading name: D M Hall Chartered Surveyors LLP

Address:

12 Grampian Court

Beveridge Square Livingston EH54 6QF

Phone number: 01506 490404

Email address: william.knight@dmhall.co.uk

Related party disclosure: No related party

This Certificate and report will be available to view online by any party with access to the report reference number and to organisations delivering energy efficiency and carbon reduction initiatives on behalf of the Scottish and UK Governments. If you are the current owner or occupier of this building and do not wish this data to be shared with third parties for purposes other than the sale or rental of the property, please notify the assessor listed above and your data will be restricted accordingly. Further information on this and on Energy Performance Certificates in general can be found at www.scotland.gov.uk.

Opportunity to benefit from a Green Deal on this property.

When the Green Deal launches, it may enable owners and occupiers to make improvements to their property to make it more energy efficient. Under a Green Deal, the cost of the improvements is repaid over time via a credit agreement. Repayments are made through a charge added to the electricity bill for the property.

To see which improvements are recommended for this property, please turn to page 3. You can choose which improvements you want to install and ask for a quote from an authorised Green Deal provider. They will organise installation by an authorised Green Deal installer. If you move home, the responsibility for paying the Green Deal charge under the credit agreement passes to the new electricity bill payer.

For householders in receipt of income-related benefits, additional help may be available.

To find out more, visit www.greenerscotland.org or call 0800 512 012.

Authorised home energy assessment

Finance at no upfront cost

Choose from authorised installers May be paid from savings in energy bills Repayments stay with the electricity bill payer