

Energy Performance Certificate

Address of dwelling and other details

15 BRUNTWOOD TAP,
INVERURIE,
AB51 4LS

Dwelling type: Detached house
Name of approved organisation: McKinnon DEA
Membership number: EES/006318
Date of certificate: 22 August 2009
Reference number: 0110-2849-9080-0721-5835
Total floor area: 152 m²
Main type of heating and fuel: Boiler and radiators, mains gas

This dwelling's performance ratings

This dwelling has been assessed using the RdSAP 2005 methodology. Its performance is rated in terms of the energy use per square metre of floor area, energy efficiency based on fuel costs and environmental impact based on carbon dioxide (CO₂) emissions. CO₂ is a greenhouse gas that contributes to climate change.

Energy Efficiency Rating		Environmental Impact (CO ₂) Rating	
	Current	Potential	
Very energy efficient - lower running costs			Very environmentally friendly - lower CO ₂ emissions
(92 plus) A			(92 plus) A
(81-91) B			(81-91) B
(69-80) C	75	79	(69-80) C
(55-68) D			(55-68) D
(39-54) E			(39-54) E
(21-38) F			(21-38) F
(1-20) G			(1-20) G
Not energy efficient - higher running costs			Not environmentally friendly - higher CO ₂ emissions
Scotland		Scotland	
EU Directive 2002/91/EC		EU Directive 2002/91/EC	

The energy efficiency rating is a measure of the overall efficiency of a home. The higher the rating the more energy efficient the home is and the lower the fuel bills are likely to be.

Approximate current energy use per square metre of floor area: 157 kWh/m² per year

Approximate current CO₂ emissions: 26 kg/m² per year

The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO₂) emissions. The higher the rating the less impact it has on the environment.

Cost effective improvements

Below is a list of lower cost measures that will raise the energy performance of the dwelling to the potential indicated in the tables above. Higher cost measures could also be considered and these are recommended in the attached energy report.

1 Low energy lighting for all fixed outlets

2 Upgrade heating controls

A full energy report is appended to this certificate



Information from this EPC may be given to Energy Saving Trust to provide advice to householders on financial help available to improve home energy efficiency.

For advice on how to take action and to find out about offers available to make your home more energy efficient, call 0800 512 012 or visit www.energysavingtrust.org.uk

N.B. THIS CERTIFICATE MUST BE AFFIXED TO THE DWELLING AND NOT BE REMOVED UNLESS IT IS REPLACED WITH AN UPDATED VERSION

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Energy Report

The Energy Performance Certificate and Energy Report for this dwelling were produced following an energy assessment undertaken by a member of Elmhurst Energy Systems Ltd. This is an organisation which has been approved by the Scottish ministers. The certificate has been produced under the Building (Scotland) Amendment Regulations 2006 and a copy of the certificate and this energy report have been lodged on a national register.

Assessor's name: Mr. Rodney McKinnon
Company name/trading name: McKinnon DEA
Address: Mill of Folla, Aberdeenshire, Rothienorman, AB51 8UH
Phone number: 01651 821013
Fax number:
E-mail address: mckinnondea@aol.com
Related party disclosure:

Estimated energy use, carbon dioxide (CO₂) emissions and fuel costs of this home

	Current	Potential
Energy use	157 kWh/m ² per year	139 kWh/m ² per year
Carbon dioxide emissions	3.9 tonnes per year	3.5 tonnes per year
Lighting	£162 per year	£81 per year
Heating	£475 per year	£465 per year
Hot water	£158 per year	£148 per year

Based on standardised assumptions about occupancy, heating patterns and geographical location, the above table provides an indication of how much it will cost to provide lighting, heating and hot water to this home. The fuel costs only take into account the cost of fuel and not any associated service, maintenance or safety inspection. This certificate has been provided for comparative purposes only and enables one home to be compared with another. Always check the date the certificate was issued, because fuel prices can increase over time and energy saving recommendations will evolve.

About the building's performance ratings

The ratings on the certificate provide a measure of the building's overall energy efficiency and its environmental impact, calculated in accordance with a national methodology that takes into account factors such as insulation, heating and hot water systems, ventilation and fuels used.

Not all buildings are used in the same way, so energy ratings use 'standard occupancy' assumptions which may be different from the specific way you use your home.

Buildings that are more energy efficient use less energy, save money and help protect the environment. A building with a rating of 100 would cost almost nothing to heat and light and would cause almost no carbon emissions. The potential ratings in the certificate describe how close this building could get to 100 if all the cost effective recommended improvements were implemented.

About the impact of buildings on the environment

One of the biggest contributors to global warming is carbon dioxide. The way we use energy in buildings causes emissions of carbon. The energy we use for heating, lighting and power in homes produces over a quarter of the UK's carbon dioxide emissions and other buildings produce a further one-sixth.

The average household causes about 6 tonnes of carbon dioxide every year. Adopting the recommendations in this report can reduce emissions and protect the environment. You could reduce emissions even more by switching to renewable energy sources. In addition there are many simple everyday measures that will save money, improve comfort and reduce the impact on the environment. Some examples are given at the end of this report.

Summary of this home's energy performance related features

The following is an assessment of the key individual elements that have an impact on this home's performance rating. Each element is assessed against the following scale: Very poor / Poor / Average / Good / Very good.

Elements	Description	Current performance	
		Energy Efficiency	Environmental
Walls	Cavity wall, as built, insulated (assumed)	Very good	Very good
Roof	Pitched, 300 mm loft insulation	Very good	Very good
Floor	Solid, insulated (assumed)	-	-
Windows	Fully double glazed	Good	Good
Main heating	Boiler and radiators, mains gas	Good	Good
Main heating controls	Programmer, TRVs and bypass	Poor	Poor
Secondary heating	Room heaters, mains gas	-	-
Hot water	From main system	Good	Good
Lighting	No low energy lighting	Very poor	Very poor
Current energy efficiency rating		C 75	
Current environmental impact (CO ₂) rating		C 73	

Low and zero carbon energy sources

These are sources of energy (producing or providing electricity or hot water) which emit little or no carbon dioxide into the atmosphere. There are none applicable to this home.

Recommended measures to improve this home's energy performance

The measures below are cost effective. The performance ratings after improvement listed below are cumulative, that is they assume the improvements have been installed in the order that they appear in the table. However you should check the conditions in any covenants, warranties or sale contracts, and whether any legal permissions are required such as a building warrant, planning consent or listed building restrictions.

Lower cost measures (up to £500)	Typical savings per year	Performance ratings after improvement	
		Energy efficiency	Environmental impact
1 Low energy lighting for all fixed outlets	£66	C 78	C 75
2 Upgrade heating controls	£35	C 79	C 76
Sub-total	£101		
Higher cost measures (over £500)			
3 Replace boiler with Band A condensing boiler	£58	B 81	C 79
Total	£159		
Potential energy efficiency rating		B 81	
Potential environmental impact (CO ₂) rating		C 79	

Further measures to achieve even higher standards

The further measures listed below should be considered in addition to those already specified if aiming for the highest possible standards for this home. Some of these measures may be cost-effective when other building work is being carried out such as an alteration, extension or repair. Also they may become cost-effective in the future depending on changes in technology costs and fuel prices. However you should check the conditions in any covenants, warranties or sale contracts, and whether any legal permissions are required such as a building warrant, planning consent or listed building restrictions.

4 Solar photovoltaic panels, 2.5 kWp	£167	B 88	B 85
Enhanced energy efficiency rating		B 88	
Enhanced environmental impact (CO ₂) rating		B 85	

Improvements to the energy efficiency and environmental impact ratings will usually be in step with each other. However, they can sometimes diverge because reduced energy costs are not always accompanied by a reduction in carbon dioxide (CO₂) emissions.

What can I do today?

Actions that will save money and reduce the impact of your home on the environment include:

- Ensure that you understand the dwelling and how its energy systems are intended to work so as to obtain the maximum benefit in terms of reducing energy use and CO₂ emissions.
- If you have a conservatory or sunroom, avoid heating it in order to use it in cold weather and close doors between the conservatory and dwelling.
- Check that your heating system thermostat is not set too high (in a home, 21°C in the living room is suggested) and use the timer to ensure you only heat the building when necessary.
- Make sure your hot water is not too hot - a cylinder thermostat need not normally be higher than 60°C.
- Turn off lights when not needed and do not leave appliances on standby. Remember not to leave chargers (e.g. for mobile phones) turned on when you are not using them.
- If you're not filling up the washing machine, tumble dryer or dishwasher, use the half-load or economy programme. Minimise the use of tumble dryers and dry clothes outdoors where possible.
- Close your curtains at night to reduce heat escaping through the windows.