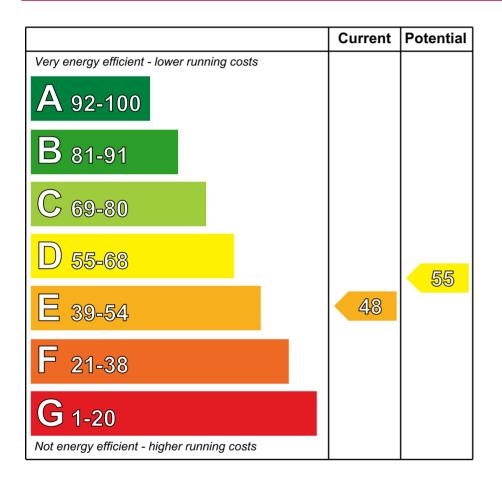
Energy Performance Certificate		Northern Ireland		
98, Lurgan Road	Date of assessment:	05 September 2008		
Magheralin	Date of certificate: Reference number:	05 September 2008 0462-2955-0817-0908-6421		
CRAIGAVON	Accreditation scheme:	ECMK Ltd		
BT67 0QP	Assessor's name: Assessor's accreditation number: Employer/trading name: Employer/trading address:	Mr George Downey ECMK280056 Downey Energy Solutions 27 Wynfort Lodge Old Kilmore Road Craigavon A		

#### Related party disclosure:

I am not related to the buyer nor seller

# **Energy Efficiency Rating**



# **Technical information**

Main heating type and fuel: Total floor area: Approximate energy use: Approximate CO<sub>2</sub> emissions: Dwelling type: Boiler and radiators, oil185m²227kWh/m² per year48kg/m² per yearDetached House

# Benchmark

Average for Northern Ireland 50

The approximate energy use and  $CO_2$  emissions are per square metre of floor area based on fuel costs for the heating, ventilation, hot water and lighting systems. The rating can be compared to the benchmark of the average energy efficiency rating for the housing stock in Northern Ireland.

## Estimated energy use, carbon dioxide CO<sub>2</sub> emissions and fuel costs of this home

	Current	Potential
Energy use	227 kWh/m <sup>2</sup> per year	194 kWh/m² per year
Carbon dioxide emissions	8.9 tonnes per year	8 tonnes per year
Lighting	£175 per year	£90 per year
Heating	£1163 per year	£1071 per year
Hot water	£219 per year	£191 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 savings recommendations will evolve.

To see how this home can achieve its potential rating please see the recommended measures.

### About this document

The Energy Performance Certificate for this dwelling was produced following an energy assessment undertaken by a qualified assessor, accredited by ECMK Ltd, to a scheme authorised by the Government. This certificate was produced using the RdSAP 2005 assessment methodology and has been produced under the Energy Performance of Buildings (Certificates and Inspections) Regulations (Northern Ireland) 2008. A copy of the certificate has been lodged on a national register.

### If you have a complaint or wish to confirm that the certificate is genuine

Details of the assessor and the relevant accreditation scheme are on the preceding page. You can get contact details of the accreditation scheme from our web site at www.ecmk.co.uk together with details of their procedures for confirming authenticity of a certificate and for making a complaint.

# About the building's performance ratings

The ratings 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. The average energy efficiency rating for a dwelling in Northern Ireland is band E (rating 50).

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. Different methods of calculation are used for homes and for other buildings. Details can be found at www.communities.gov.uk/epdb

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.



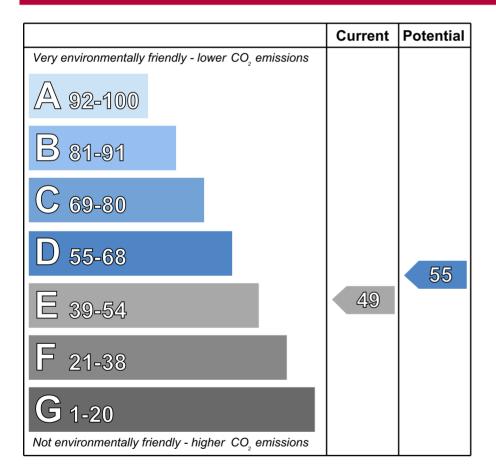
Remember to look for the energy saving recommended logo when buying energy-efficient product. It's a quick and easy way to identify the most energy-efficient products on the market.

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

# 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 every day measures that will save money, improve comfort and reduce the impact on the environment. Some examples are given at the end of this report.



# Environmental Impact CO<sub>2</sub> Rating

#### Visit the Government's website at www.communities.gov.uk/epbd to:

- Find how to confirm the authenticity of an energy performance certificate
- Find how to make a complaint about a certificate or the assessor who produced it
- Learn more about the national register where this certificate has been lodged
- Learn more about energy efficiency and reducing energy consumption

# Recommended measures to improve this home's energy performance

98, Lurgan Road Magheralin Date of certificate: Reference number:

05 September 2008 0462-2955-0817-0908-6421

CRAIGAVON BT67 0QP

# 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.

Element	Description	Current performance		
	Description	Energy Efficiency	Environmental	
Walls	Cavity wall, as built, insulated (assumed)	Good	Good	
Roof	Pitched, 150mm loft insulation	Good	Good	
Floor	Solid, limited insulation (assumed)			
Windows	Fully double glazed	Average	Average	
Main heating	Boiler and radiators, oil	Average	Average	
Main heating controls	Programmer, TRVs and bypass	Poor	Poor	
Secondary heating	Room heaters, bottled gas			
Hot water	From main system	Average	Average	
Lighting	Low energy lighting in 5% of fixed outlets	Very poor	Very poor	
Current Energy efficiency rating E 48				
Current environmenta		E 49		

#### **Recommendations**

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.

Lower cost measures (up to £500)	Typical savings	Performance ratings after improvement		
	per year	Energy efficiency	Environmental impact	
1. Increase loft insulation to 250 mm	£52	E 49	E 51	
2. Low energy lighting for all fixed outlets	£48	E 51	E 51	
Sub-total	£100			
Higher cost measures				
3. Upgrade heating controls	£54	E 53	E 53	
4. Replace boiler with Band A condensing boiler	£51	D 55	D 55	
Total	£205			
Potential Energy efficiency rating		D 55		
Potential environmental impact (CO <sub>2</sub> ) rating			D 55	

## 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 becomecost-effective in the future depending on changes in technology costs and fuel prices. However you chould check the conditions in any covenants, planning conditions, warranties or sale contracts before undertaking any of these measures.

5. Solar photovoltaics panels, 25% of roof area	£99	D 57	D 59
Enhanced Energy efficiency rating		D 57	
Enhanced environmental impact (CO <sub>2</sub> ) rating			D 59

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  $(CO_2)$  emissions.

#### About the cost effective measures to improve this home's performance ratings

Building regulations apply to most measures. Building regulations approval and planning consent may be required for some measures. If you are a tenant you should obtain the landlord's approval before carrying out any work.

#### Lower cost measures (typically up to £500 each)

These measures are relatively inexpensive to install and are worth tackling first. Some of them may be installed as DIY projects. DIY is not always straightforward, and sometimes there are health and safety risks, so take advice before carrying out DIY improvements.

#### 1 Increase loft insulation to 250 mm

Loft Insulation laid in the loft space or between roof rafters to a depth of at least 250 mm will significantly reduce heat loss through the roof; this will improve the levels of comfort, reduce energy use and lower fuel bills. Insulation should not be placed below any cold water storage tank; any such tank should also be insulated on its sides and top, and there should be boarding on battens over the insulation to provide safe access between the loft hatch and the cold water tank. The insulation can be installed by professional contractors but also by a capable DIY enthusiast. Loose granules may be used instead of insulation quilt; this form of loft insulation can be blown into place and can be useful where access is difficult. The loft space must have adequate ventilation to prevent dampness; seek advice about this if unsure (particularly if installing insulation between rafters because a vapour control layer and ventilation above the insulation are required).

#### 2 Low energy lighting for all fixed outlets

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.

#### Higher cost measures (typically over £500 each)

#### 3 Upgrade heating controls

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. It is best to obtain advice from a qualified heating engineer.

#### 4 Replace boiler with Band A 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, but 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). It is best to obtain advice from a qualified heating engineer. Ask the engineer to explain the options.

### About the further measures to achieve even higher standards

Further measures that could deliver even higher standards for this home. You should check the conditions in any covenants, planning conditions, warranties or sale contracts before undertaking any of these measures.

Building regulations apply to most measures. Building regulations approval and planning consent may be required for some measures. If you are a tenant you should obtain the landlord's approval before carrying out any work.

#### 5 Solar photovoltaics panels, 25% of roof area

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. The British Photovoltaic Association has up-to-date information on local installers who are qualified electricians and any grant that may be available. It is best to obtain advice from a qualified electrician. Ask the electrician to explain the options.

#### 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 CO<sub>2</sub> emissions.
- 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.
- Close your curtains at night to reduce heat escaping through the windows.
- 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.