

# Energy Performance Certificate

## Address of dwelling and other details


3F3,  
19 CATHCART PLACE,  
EDINBURGH,  
EH11 2HF

Dwelling type:  
Name of approved organisation:  
Membership number:  
Date of certificate:  
Reference number:  
Type of assessment:  
Total floor area:  
Main type of heating and fuel:

Top-floor flat  
Elmhurst Energy Systems Ltd  
EES/007425  
16 September 2010  
9272-1006-4201-9670-9904  
RdSAP, existing dwelling  
62 m<sup>2</sup>  
Electric underfloor heating

## 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 (CO<sub>2</sub>) emissions. CO<sub>2</sub> is a greenhouse gas that contributes to climate change.

Energy Efficiency Rating		Current	Potential
Very energy efficient - lower running costs			
(92 plus) <b>A</b>			
(81-91) <b>B</b>			
(69-80) <b>C</b>			
(55-68) <b>D</b>			
(39-54) <b>E</b>			
(21-38) <b>F</b>			
(1-20) <b>G</b>		<b>20</b>	<b>20</b>
Not energy efficient - higher running costs			
<b>Scotland</b>	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: 831 kWh/m<sup>2</sup> per year

Approximate current CO<sub>2</sub> emissions: 125 kg/m<sup>2</sup> per year

Environmental Impact (CO <sub>2</sub> ) Rating		Current	Potential
Very environmentally friendly - lower CO <sub>2</sub> emissions			
(92 plus) <b>A</b>			
(81-91) <b>B</b>			
(69-80) <b>C</b>			
(55-68) <b>D</b>			
(39-54) <b>E</b>			
(21-38) <b>F</b>		<b>23</b>	<b>23</b>
(1-20) <b>G</b>			
Not environmentally friendly - higher CO <sub>2</sub> emissions			
<b>Scotland</b>	EU Directive 2002/91/EC		

The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO<sub>2</sub>) 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.

Not applicable

*A full energy report is appended to this certificate*



Certification mark

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

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

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

## 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. David Samuel Wilson  
 Company name/trading name: Cool Flame Heating  
 Address: Unit 130, 44 - 46 Morningside Road, Edinburgh, Mid Lothian, EH10 4BF  
 Phone number: 0800 154525  
 Fax number:  
 E-mail address: info@coolflame.co.uk  
 Related party disclosure: No related party

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

	Current	Potential
Energy use	831 kWh/m <sup>2</sup> per year	831 kWh/m <sup>2</sup> per year
Carbon dioxide emissions	7.8 tonnes per year	7.8 tonnes per year
Lighting	£57 per year	£57 per year
Heating	£961 per year	£961 per year
Hot water	£370 per year	£370 per year

The figures in the table above have been provided to enable prospective buyers and tenants to compare the fuel costs and carbon emissions of one home with another. To enable this comparison the figures have been calculated using standardised running conditions (heating periods, room temperatures, etc.) that are the same for all homes, consequently they are unlikely to match an occupier's actual fuel bills and carbon emissions in practice. The figures do not include the impacts of the fuels used for cooking or running appliances, such as TV, fridge etc.; nor do they reflect the costs associated with service, maintenance or safety inspections. Always check the certificate date because fuel prices can change 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 table below gives an assessment of the key individual elements that have an impact on this home's energy and environmental performance. Each element is assessed by the national calculation methodology against the following scale: Very poor / Poor / Average / Good / Very good. The assessment does not take into consideration the physical condition of any element. '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.

Elements	Description	Current performance	
		Energy Efficiency	Environmental
Walls	Sandstone, as built, no insulation (assumed)	Poor	Poor
Roof	Pitched, no insulation (assumed)	Very poor	Very poor
Floor	(other premises below)	-	-
Windows	Fully double glazed	Average	Average
Main heating	Electric underfloor heating	Poor	Very poor
Main heating controls	Temperature zone control	Good	Good
Secondary heating	None	-	-
Hot water	Electric immersion, off-peak	Very poor	Poor
Lighting	Low energy lighting in 50% of fixed outlets	Good	Good
Current energy efficiency rating		G 20	
Current environmental impact (CO <sub>2</sub> ) rating		F 23	

### 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

None

### Further measures to achieve even higher standards

The measures listed below should be considered 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.

	Typical savings per year	Performance ratings after improvement	
		Energy efficiency	Environmental impa
1 Change heating to gas condensing boiler	£682	D 63	D 57
<b>Enhanced energy efficiency rating</b>		<b>D 63</b>	
<b>Enhanced environmental impact (CO<sub>2</sub>) rating</b>		<b>D 57</b>	

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<sub>2</sub>) emissions.

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

Not applicable

## 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. If you are a tenant, before undertaking any work you should check the terms of your lease and obtain approval from your landlord if the lease either requires it, or makes no express provision for such work.

### 1 Gas condensing boiler

Changing the heating to use a mains gas boiler that provides both space and water heating will save money, as mains gas is currently cheaper than the fuel being used at present. A condensing boiler is capable of much higher efficiencies than other types of boiler, meaning it will burn less fuel to heat the property, 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). This improvement is most appropriate when the existing heating system needs repair or replacement. Building regulations may apply to this work, so it is best to obtain advice from your local authority building standards department and from a qualified heating engineer.

## 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.
- 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.

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](http://www.energysavingtrust.org.uk).