# Energy Performance Certificate

SAP

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**44, Beaconside Close, STAFFORD, ST16 3QS**

| | | | |
|---|---|---|---|
| **Dwelling type:** | End-terrace house | **Reference number:** | 0148-7093-6207-6254-1974 |
| **Date of assessment:** | 04 March 2014 | **Type of assessment:** | RdSAP, existing dwelling |
| **Date of certificate:** | 05 March 2014 | **Total floor area:** | 56 m² |

## Use this document to:

- Compare current ratings of properties to see which properties are more energy efficient
- Find out how you can save energy and money by installing improvement measures

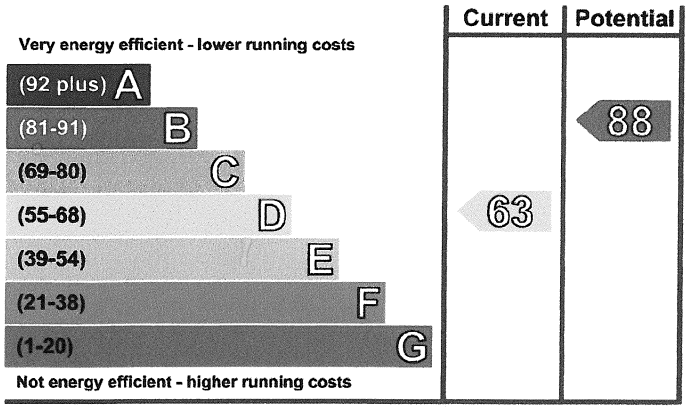
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|---|---|
| Estimated energy costs of dwelling for 3 years: | £ 2,055 |
| Over 3 years you could save | £ 588 |

## Estimated energy costs of this home

| | Current costs | Potential costs | Potential future savings |
|---|---|---|---|
| **Lighting** | £ 195 over 3 years | £ 120 over 3 years | You could save £ 588 over 3 years |
| **Heating** | £ 1,467 over 3 years | £ 1,107 over 3 years | |
| **Hot Water** | £ 393 over 3 years | £ 240 over 3 years | |
| **Totals** | **£ 2,055** | **£ 1,467** | |

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 like TVs, computers and cookers, and any electricity generated by microgeneration.

## Energy Efficiency Rating




The graph shows the current energy efficiency of your home.

The higher the rating the lower your fuel bills are likely to be.

The potential rating shows the effect of undertaking the recommendations on page 3.

The average energy efficiency rating for a dwelling in England and Wales is band D (rating 60).

## Top actions you can take to save money and make your home more efficient

| Recommended measures | Indicative cost | Typical savings over 3 years | Available with Green Deal |
|---|---|---|---|
| 1 Floor insulation | £800 - £1,200 | £ 186 | ✓ |
| 2 Low energy lighting for all fixed outlets | £35 | £ 57 | |
| 3 Fan-assisted storage heaters | £900 - £1,200 | £ 141 | ✓ |

See page 3 for a full list of recommendations for this property.

To find out more about the recommended measures and other actions you could take today to save money, visit **www.direct.gov.uk/savingenergy** or call **0300 123 1234** (standard national rate). The Green Deal may allow you to make your home warmer and cheaper to run at no up-front cost.

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## Summary of this home's energy performance related features

| Element | Description | Energy Efficiency |
|---|---|---|
| Walls | Cavity wall, as built, insulated (assumed) | ★★★★☆ |
| Roof | Pitched, 300+ mm loft insulation | ★★★★★ |
| Floor | Solid, no insulation (assumed) | — |
| Windows | Fully double glazed | ★★★☆☆ |
| Main heating | Electric storage heaters | ★★★☆☆ |
| Main heating controls | Automatic charge control | ★★★☆☆ |
| Secondary heating | Room heaters, electric | — |
| Hot water | Electric immersion, off-peak | ★★★☆☆ |
| Lighting | Low energy lighting in 36% of fixed outlets | ★★★☆☆ |

Current primary energy use per square metre of floor area: 435 kWh/m² per year

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.

## Low and zero carbon energy sources

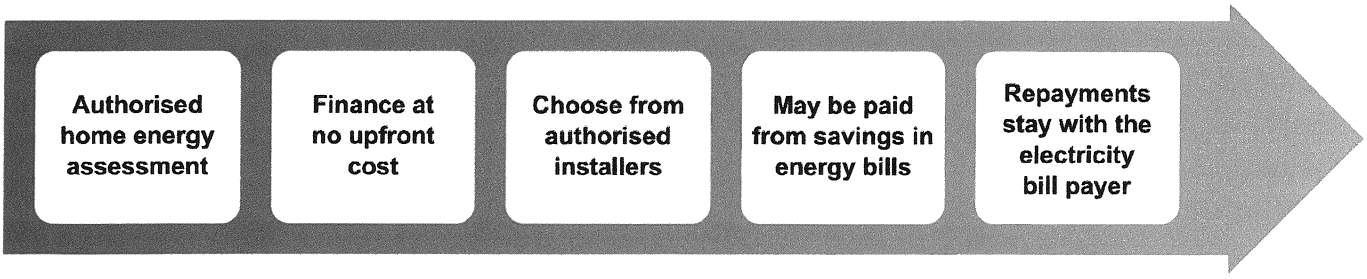
Low and zero carbon energy sources are sources of energy that release either very little or no carbon dioxide into the atmosphere when they are used. Installing these sources may help reduce energy bills as well as cutting carbon. There are none provided for this home.

## Opportunity to benefit from a Green Deal on this property

The Green Deal 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.direct.gov.uk/savingenergy** or call **0300 123 1234**.



## Recommendations

The measures below will improve the energy performance of your 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 you could take today to save money is available at **www.direct.gov.uk/savingenergy**. Before installing measures, you should make sure you have secured the appropriate permissions, where necessary. Such permissions might include permission from your landlord (if you are a tenant) or approval under Building Regulations for certain types of work.

Measures with a green tick are likely to be fully financed through the Green Deal since the cost of the measures should be covered by the energy they save. Additional support may be available for homes where solid wall insulation is recommended. If you want to take up measures with an orange tick, be aware you may need to contribute some payment up-front.

| Recommended measures | Indicative cost | Typical savings per year | Rating after improvement | Green Deal finance |
|---|---|---|---|---|
| Floor insulation | £800 - £1,200 | £ 62 | D67 | ✓ |
| Low energy lighting for all fixed outlets | £35 | £ 19 | D67 | |
| Fan-assisted storage heaters | £900 - £1,200 | £ 47 | C70 | ✓ |
| Solar water heating | £4,000 - £6,000 | £ 49 | C73 | ✓ |
| High performance external doors | £1,000 | £ 19 | C74 | ✓ |
| Solar photovoltaic panels, 2.5 kWp | £9,000 - £14,000 | £ 253 | B87 | ✓ |
| Wind turbine | £1,500 - £4,000 | £ 21 | B88 | ✓ |

## Alternative measures

There are alternative measures below which you could also consider for your home.

- Air or ground source heat pump
- Micro CHP

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## About this document

The Energy Performance Certificate for this dwelling was produced following an energy assessment undertaken by a qualified assessor, accredited by Elmhurst Energy Systems Ltd. You can get contact details of the accreditation scheme at www.elmhurstenergy.co.uk, together with details of their procedures for confirming authenticity of a certificate and for making a complaint. A copy of this EPC has been lodged on a national register. It will be publicly available and some of the underlying data may be shared with others for compliance and marketing of relevant energy efficiency information. The Government may use some of this data for research or statistical purposes. Green Deal financial details that are obtained by the Government for these purposes will not be disclosed to non-authorised recipients. The current property owner and/or tenant may opt out of having their information shared for marketing purposes.

| | |
|---|---|
| **Assessor's accreditation number:** | EES/006964 |
| **Assessor's name:** | Mr. Adam Welsh |
| **Phone number:** | 07897 438738 |
| **E-mail address:** | welshy86@hotmail.com |
| **Related party disclosure:** | No related party |

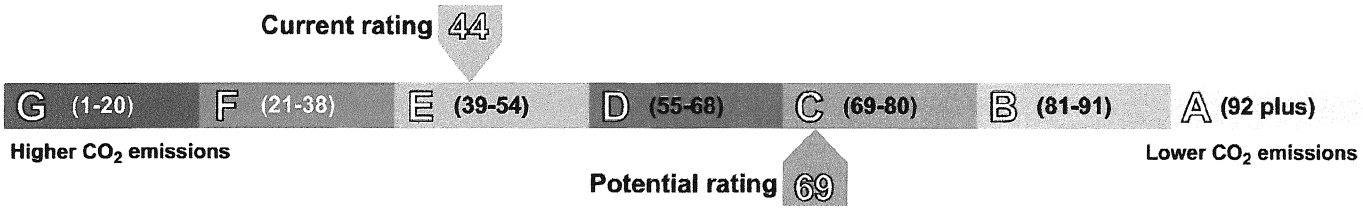
Further information about Energy Performance Certificates can be found under Frequently Asked Questions at **www.epcregister.com**.

## About the impact of buildings on the environment

One of the biggest contributors to global warming is carbon dioxide. The energy we use for heating, lighting and power in homes produces over a quarter of the UK's carbon dioxide emissions.

The average household causes about 6 tonnes of carbon dioxide every year. Based on this assessment, your home currently produces approximately 4.3 tonnes of carbon dioxide every year. Adopting the recommendations in this report can reduce emissions and protect the environment. If you were to install these recommendations you could reduce this amount by 2.1 tonnes per year. You could reduce emissions even more by switching to renewable energy sources.

The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide ($CO_2$) emissions. The higher the rating the less impact it has on the environment.




## Your home's heat demand

For most homes, the vast majority of energy costs derive from heating the home. Where applicable, this table shows the energy that could be saved in this property by insulating the loft and walls, based on typical energy use (shown within brackets as it is a reduction in energy use).

| Heat demand | Existing dwelling | Impact of loft insulation | Impact of cavity wall insulation | Impact of solid wall insulation |
|---|---|---|---|---|
| Space heating (kWh per year) | 6,203 | N/A | N/A | N/A |
| Water heating (kWh per year) | 1,755 | | | |