



Energy Performance Certificate
and
Recommendations Report

**12 – 12a Cross Street
Camborne
TR14 8EX**

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EPC • DEC • SBEM • BREEAM • SAP
Green Deal • Thermal Imaging • ESOS

Energy Performance Certificate

Non-Domestic Building



12-12a Cross Street
CAMBORNE
TR14 8EX

Certificate Reference Number:
0670-0936-4949-5404-6006

This certificate shows the energy rating of this building. It indicates the energy efficiency of the building fabric and the heating, ventilation, cooling and lighting systems. The rating is compared to two benchmarks for this type of building: one appropriate for new buildings and one appropriate for existing buildings. There is more advice on how to interpret this information on the Government's website www.communities.gov.uk/epbd.

Energy Performance Asset Rating

More energy efficient

A+

..... Net zero CO₂ emissions

A 0-25

B 26-50

C 51-75

D 76-100

E 101-125

F 126-150

G Over 150

Less energy efficient

◀ 125

This is how energy efficient the building is.

Technical Information

Main heating fuel: Natural Gas
Building environment: Heating and Natural Ventilation
Total useful floor area (m²): 184
Building complexity (NOS level): 3
Building emission rate (kgCO₂/m²): 127.35

Benchmarks

Buildings similar to this one could have ratings as follows:

25

If newly built

74

If typical of the existing stock

Green Deal Information

The Green Deal will be available from later this year. To find out more about how the Green Deal can make your property cheaper to run, please call 0300 123 1234.

Administrative Information

This is an Energy Performance Certificate as defined in SI 2007:991 as amended.

Assessment Software:	Virtual Environment v7.0.5 using calculation engine SBEM v5.2.g.3
Property Reference:	754969440000
Assessor Name:	Alistair Pilcher
Assessor Number:	STRO000285
Accreditation Scheme:	Stroma Accreditation Ltd
Employer/Trading Name:	Up Energy
Employer/Trading Address:	www.upenergy.co.uk
Issue Date:	13 Apr 2016
Valid Until:	12 Apr 2026 (unless superseded by a later certificate)
Related Party Disclosure:	Not related to the owner.

Recommendations for improving the property are contained in Report Reference Number: 0040-7996-0446-4640-9050

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 certificate. You can get contact details of the accreditation scheme from the Department's website at www.communities.gov.uk/epbd, together with details of the procedures for confirming authenticity of a certificate and for making a complaint.

Opportunity to benefit from a Green Deal on this property

The Green Deal can help you cut your energy bills by making energy efficiency improvements at no upfront costs. Use the Green Deal to find trusted advisors who will come to your property, recommend measures that are right for you and help you access a range of accredited installers. Responsibility for repayments stays with the property – whoever pays the energy bills benefits so they are responsible for the payments.

To find out how you could use Green Deal finance to improve your property please call 0300 123 1234.

Recommendation Report

Report Reference Number: 0040-7996-0446-4640-9050

12-12a Cross Street
CAMBORNE
TR14 8EX

Building Type(s): A1/A2 Retail and Financial/Professional services

ADMINISTRATIVE INFORMATION	
Issue Date:	13 Apr 2016
Valid Until:	12 Apr 2026 (*)
Total Useful Floor Area (m ²):	184
Calculation Tool Used:	IES Ltd, Virtual Environment, v7.0.5, SBEM, v5.2.g.3
Property Reference:	754969440000
Energy Performance Certificate for the property is contained in Report Reference Number: 0670-0936-4949-5404-6006	

ENERGY ASSESSOR DETAILS	
Assessor Name:	Alistair Pilcher
Employer/Trading Name:	Up Energy
Employer/Trading Address:	www.upenergy.co.uk
Assessor Number:	STRO000285
Accreditation Scheme:	Stroma Accreditation Ltd
Related party disclosure:	

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1. Background

Statutory Instrument 2007 No. 991, *The Energy Performance of Buildings (Certificates and Inspections) (England and Wales) Regulations 2007*, as amended, transposes the requirements of Articles 7.2 and 7.3 of the Energy Performance of Buildings Directive 2002/91/EC. This report is a Recommendation Report as required under regulations 16(2)(a) and 19 of the Statutory Instrument SI 2007:991.

This section provides general information regarding the building:

Total Useful Floor Area (m ²):	184
Building Environment:	Heating and Natural Ventilation

2. Introduction

This Recommendation Report was produced in line with the Government's approved methodology and is based on calculation tool IES Ltd, Virtual Environment, v7.0.5, SBEM, v5.2.g.3.

In accordance with Government's current guidance, the Energy Assessor did undertake a walk around survey of the building prior to producing this Recommendation Report.

3. Recommendations

The following sections list recommendations selected by the energy assessor for the improvement of the energy performance of the building. The recommendations are listed under four headings: short payback, medium payback, long payback, and other measures.

a) Recommendations with a short payback

This section lists recommendations with a payback of less than 3 years:

Recommendation	Potential impact
Replace tungsten GLS lamps with CFLs: Payback period dependent on hours of use.	LOW
Consider replacing T8 lamps with retrofit T5 conversion kit.	HIGH
In some spaces, the solar gain limit defined in the NCM is exceeded, which might cause overheating. Consider solar control measures such as the application of reflective coating or shading devices to windows.	MEDIUM
Introduce HF (high frequency) ballasts for fluorescent tubes: Reduced number of fittings required.	LOW
Add optimum start/stop to the heating system.	MEDIUM

b) Recommendations with a medium payback

This section lists recommendations with a payback of between 3 and 7 years:

Recommendation	Potential impact
Some walls have uninsulated cavities - introduce cavity wall insulation.	HIGH
Some windows have high U-values - consider installing secondary glazing.	HIGH
Add weather compensation controls to heating system.	MEDIUM
Carry out a pressure test, identify and treat identified air leakage. Enter result in EPC calculation.	HIGH

c) Recommendations with a long payback

This section lists recommendations with a payback of more than 7 years:

Recommendation	Potential impact
Some glazing is poorly insulated. Replace/improve glazing and/or frames.	HIGH
Improve insulation on HWS storage.	LOW
Consider installing building mounted wind turbine(s).	LOW
Consider installing solar water heating.	LOW
Roof is poorly insulated. Install or improve insulation of roof.	HIGH

d) Other Recommendations

This section lists other recommendations selected by the energy assessor, based on an understanding of the building, and / or based on a valid existing energy report.

Recommendation	Potential impact
Replace existing boiler systems with single modern, high efficiency model and include local time and temperature control for independent zonal heating operation.	HIGH

4. Next Steps

a) Your Recommendation Report

As the building occupier, regulation 10(1) of SI 2007:991 requires that an Energy Performance Certificate "*must be accompanied by a recommendation report*".

You must be able to produce a copy of this Recommendation Report within seven days if requested by an Enforcement Authority under regulation 39 of SI 2007:991.

This Recommendation Report has also been lodged on the Government's central register. Access to the report, to the data used to compile the report, and to previous similar documents relating to the same building can be obtained by request through the Non-Dwellings Register (www.epcregister.com) using the report reference number of this document.

b) Implementing recommendations

The recommendations are provided as an indication of opportunities that appear to exist to improve the building's energy efficiency.

The calculation tool has automatically produced a set of recommendations, which the Energy Assessor has reviewed in the light of his / her knowledge of the building and its use. The Energy Assessor may have comments on the recommendations based on his / her knowledge of the building and its use. The Energy Assessor may have inserted additional recommendations in section 3d (Other Recommendations). He / she may have removed some automatically generated recommendations or added additional recommendations.

These recommendations do not include matters relating to operation and maintenance which cannot be identified from the calculation procedure.

c) Legal disclaimer

The advice provided in this Recommendation Report is intended to be for information only. Recipients of this Recommendation Report are advised to seek further detailed professional advice before reaching any decision on how to improve the energy performance of the building.

d) Complaints

Details of the assessor and the relevant accreditation scheme are on this report and the energy performance certificate. You can get contact details of the accreditation scheme from our website at www.communities.gov.uk/epbd, together with details of their procedures for confirming authenticity of a certificate and for making a complaint.

5. Glossary

a) Payback

The payback periods are based on data provided by Good Practice Guides and Carbon Trust energy survey reports and are average figures calculated using a simple payback method. It is assumed that the source data is correct and accurate using up to date information.

The figures have been calculated as an average across a range of buildings and may differ from the actual payback period for the building being assessed. Therefore, it is recommended that each suggested measure be further investigated before reaching any decision on how to improve the energy efficiency of the building.

b) Carbon impact

The High / Medium / Low carbon impact indicators against each recommendation are provided to distinguish, between the suggested recommendations, those that would most effectively reduce carbon emissions from the building. For automatically generated recommendations, the carbon impact indicators are determined by software, but may have been adjusted by the Energy Assessor based on his / her knowledge of the building. The impact of other recommendations are determined by the assessor.

c) Valid report

A valid report is a report that has been:

- Produced within the past 10 years
- Produced by an Energy Assessor who is accredited to produce Recommendation Reports through a Government Approved Accreditation Scheme.
- Lodged on the Register operated by or on behalf of the Secretary of State.

6. Green Deal Information

When the Green Deal launches, it may enable you to improve the property to make it more energy efficient and cheaper to run, without having to pay for the work upfront.

SBEM Main Calculation Output Document

Wed Apr 13 14:20:24 2016

v5.2.g.3

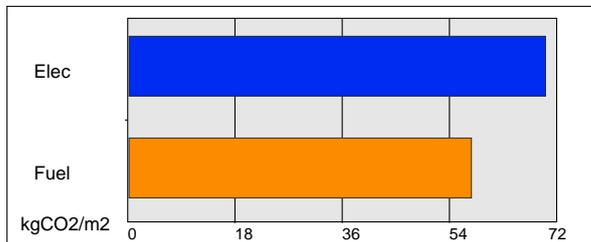
Building name

12 - 12a Cross Street

Building type: A1/A2 Retail and Financial/Professional services

SBEM is an energy calculation tool for the purpose of assessing and demonstrating compliance with Building Regulations (Part L for England and Wales, Section 6 for Scotland, Part F for Northern Ireland, Part L for Republic of Ireland and Building Bye-laws Jersey Part 11) and to produce Energy Performance Certificates and Building Energy Ratings. Although the data produced by the tool may be of use in the design process, **SBEM is not intended as a building design tool.**

Building Energy Performance and CO2 emissions

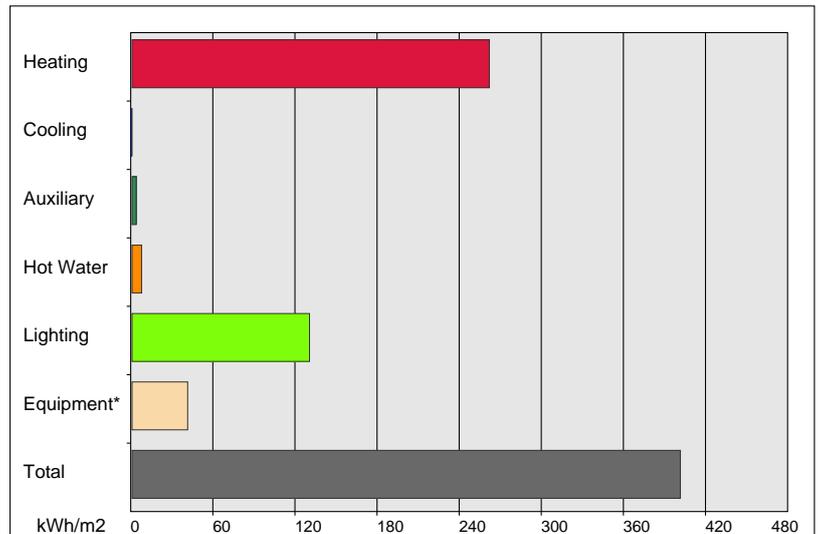
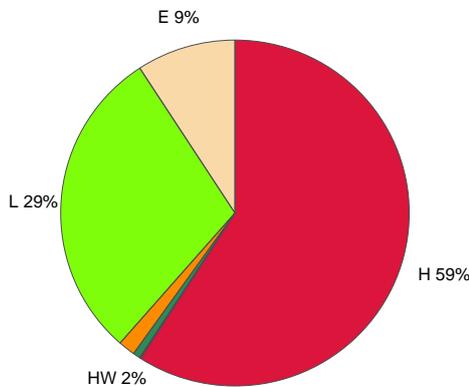


0 kgCO2/m2 displaced by the use of renewable sources.

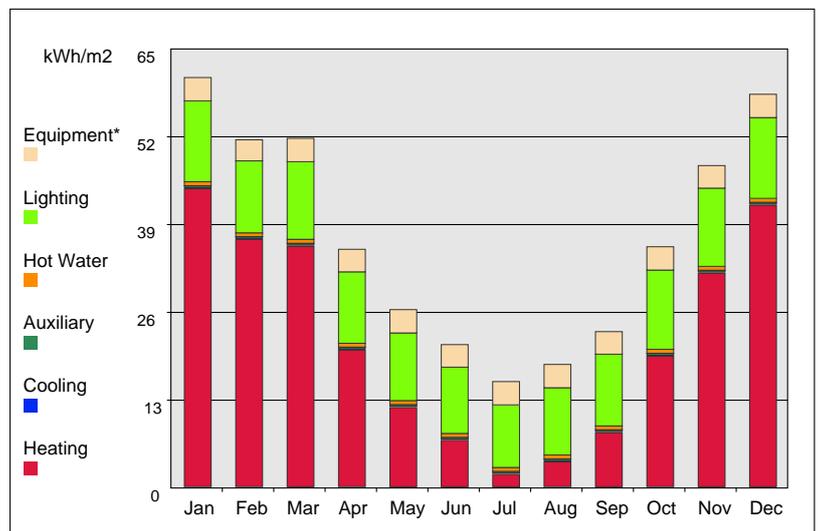
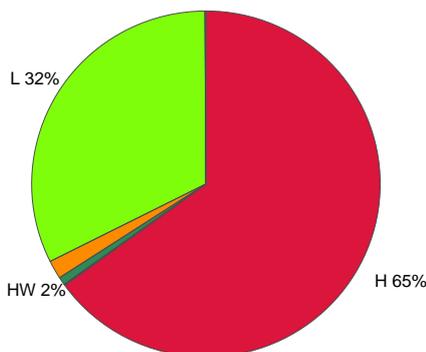
Building area is 183.96 m2

Annual Energy Consumption

(Pie chart including Equipment end-use)

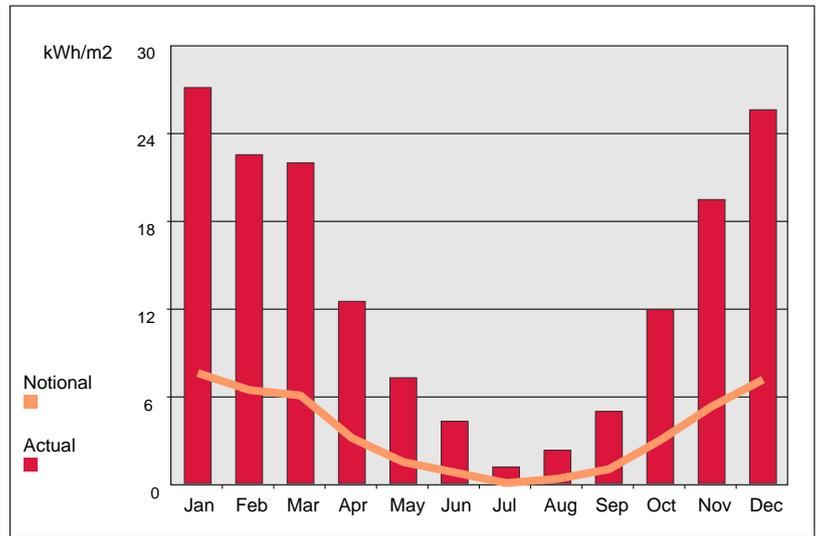
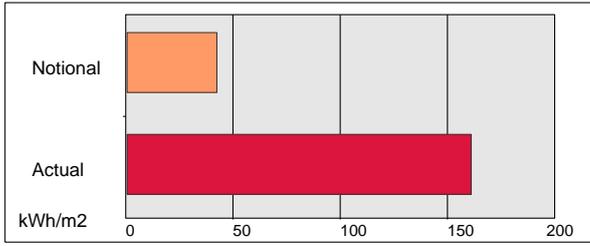


(Pie chart excluding Equipment end-use)



(*) Although energy consumption by equipment is shown in the graphs, the CO2 emissions associated with this end-use have not been taken into account when producing the rating.

Annual Heating Demand



Annual Cooling Demand

