

Advisory Report

Report Reference Number: 0000-9322-7321-4990-6813

Building Occupier

University of York

Address

J.B. MORRELL LIBRARY
University of York
Heslington
YORK
YO10 5DD

Building Type(s): Cultural activities

ADMINISTRATIVE INFORMATION	
Issue Date:	14/12/2008
Valid Until:	13/12/2015
Total Useful Floor Area (m ²):	8504
Assessment Software:	ORCALC V1-05-02
Property Reference:	607903320011
Type of inspection:	Physical

ENERGY ASSESSOR DETAILS	
Assessor Name:	Ian Shellard
Employer/Trading Name:	Sustain
Employer/Trading Address:	Barley Wood Stables, Long Lane, Wrington, BS40 5SA
Assessor Number:	BREC500006
Accreditation scheme:	BRE Global

Table of Contents

1. Background.....	3
2. Introduction.....	3
3. Recommendations.....	4
4. Next Steps.....	6
5. Glossary.....	7

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 an Advisory 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):	8504
Building Description:	Library
Building Environment:	Mixed-mode with Mechanical Ventilation
On-site renewable energy sources:	Not applicable
Separable energy uses discounted:	Not applicable

Fuel Types:	Quantity used (kWh)
District Heating	1802848
Electricity	575347
Not used	0

2. Introduction

This Advisory Report was produced in line with the Government's approved methodology and is based on assessment software ORCALC V1-05-02. This advisory report was developed based on a physical visit of the building.

In accordance with Government's current guidance, the Energy Assessor did undertake a walk around survey of the building on prior to producing this Advisory 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
Consider how building fabric airtightness could be improved, for example sealing, draught stripping and closing off unused ventilation openings, chimneys etc.	MEDIUM
Consider introducing or improving loft insulation.	HIGH
Consider introducing variable speed drives (VSD) for fans, pumps and compressors.	LOW
Seek to minimise simultaneous operation of heating and cooling systems.	MEDIUM
Consider replacing heating boiler plant with high-efficiency type.	MEDIUM
Ensure building occupants understand when the various ventilation modes of the mixed mode system are in operation to avoid windows being opened when mechanical cooling is on.	MEDIUM
Consider installing automated controls and monitoring systems to electrical equipment and portable appliances to minimise electricity waste.	LOW
Consider with experts implementation of an energy efficient equipment procurement regime that will upgrade existing equipment and renew in a planned cost-effective programme.	LOW
Consider a programme of fitting energy meters to lifts and escalators as part of the serving and maintenance regime.	LOW
Consider a programme of fitting energy meters to kitchen facilities as part of the serving and maintenance regime.	LOW
Consider with chefs and kitchen managers implementing an energy efficiency plan including maintenance and servicing provisions and operational targets, monitoring and incentives.	LOW
Consider with chefs and kitchen managers implementing a training programme and monitoring systems with incentives.	LOW
Ensure catering equipment such as large ovens and dishwashers are utilised at maximum capacity, and/or install smaller capacity appliances to increase operational flexibility.	LOW
Consider installing heat recovery to catering refrigeration condensers in order to aid with HWS generation or to heat room air.	LOW

b) Recommendations with a medium payback

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

Recommendation	Potential impact
Consider applying reflective coating to windows and/or fit shading devices to reduce unwanted solar gain.	LOW
Consider introducing/improving cavity wall insulation.	HIGH
Consider replacing heating boiler plant with a condensing type.	MEDIUM
Engage experts to propose specific measures to reduce hot water wastage and plan to carry this out.	MEDIUM

c) Recommendations with a long payback

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

Recommendation	Potential impact
The current metering provisions do not enable production of a specific and reasonably accurate Operational Rating for this building. It is recommended that meters be installed and a regime of recording data be put in place. CIBSE TM 39 gives guidance on this.	MEDIUM
Consider introducing or improving insulation of flat roofs.	MEDIUM
Engage experts to review overall heating strategy and propose an investment programme for upgrading and/or switching to alternative solutions.	MEDIUM
Consider installing building mounted solar water heating.	HIGH
Engage experts to review overall ventilation strategy and propose an investment programme for upgrading and/or switching to alternative solutions to improve effectiveness and energy efficiency.	MEDIUM

d) Other Recommendations

No other recommendations were specified by the energy assessor.

4. Next Steps

a) Your Advisory Report

As the building occupier, regulation 16(2)(a) of SI 2007/991 requires that you have in your *'possession or control at all times a valid advisory report'*. Regulation 16(4) specifies that *'an advisory report is valid for a period of seven years beginning with the date it is issued'*.

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

This Advisory 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.

You must commission a new Advisory Report in seven years from the date this Advisory Report is issued. However, a new Advisory Report may be commissioned earlier.

b) Implementing recommendations

The recommendations provided within this Advisory Report have been selected by the accredited assessor from a central list of recommendations, based on his / her knowledge of the building fabric, building services, the operation of plant and equipment within the curtilage of the building, and the general management of the building.

The accredited assessor may have inserted additional measures in section 3d (Other Recommendations). The recommendations are provided as an indication of opportunities that appear to exist to improve the buildings energy efficiency.

c) Legal disclaimer

The advice provided in this Advisory Report is intended to be for information only. Recipients of this Advisory 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 display energy 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 report 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. The carbon impact indicators are determined by the assessor based his / her knowledge of the building. In most instances, the carbon impact has not been calculated accurately.

c) Valid report

A valid existing report is defined at the Energy Assessor's discretion.