

## Building Address:

The Co-operative Estates  
5 Wardpark Road  
Cumbernauld,  
G67 3HW

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Building Type(s): Storage or Distribution

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<b>ADMINISTRATIVE INFORMATION</b>	
Issue Date:	28 Mar 2012
Valid Until:	27 Mar 2022 (*)
Total Useful Floor Area (m <sup>2</sup> ):	24525
Calculation Tool Used:	iSBEM v4.1.d using calculation engine SBEM v4.1.d.0

  

<b>QUALIFIED/ACCREDITED PERSON DETAILS</b>	
Person Name:	Dr Thomas Campbell
Employer/Trading Address:	Baltic Chambers, 50 Wellington Street, Glasgow, G2 6HJ
Protocol Organisation:	Elmhurst Energy Systems
Membership Number:	EES/008702

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## 1. Background

Building (Scotland) Act 2003 and Statutory Instrument 2007 No. 534, *The Building (Scotland) Amendment Regulations 2006*, transposes the requirements of Articles 7.2 and 7.3 of the Energy Performance of Buildings Directive 2002/91/EC.

This Recommendation Report is the Additional advice in clause 6.9.3 of the Scottish Building Standards Non-domestic Technical Handbook which may be provided. Cost effective improvements should be inserted into the Recommendations section of the Energy Performance Certificate.

This section provides general information regarding the building:

Total Useful Floor Area (m <sup>2</sup> ):	24525
Building services:	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 iSBEM v4.1.d using calculation engine SBEM v4.1.d.0 .

In accordance with Government's current guidance, the Qualified / Accredited Person 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 Qualified / Accredited Person 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:

<b>Recommendation</b>	<b>Potential impact</b>
Replace 38mm diameter (T12) fluorescent tubes on failure with 26mm (T8) tubes.	MEDIUM
Consider replacing T8 lamps with retrofit T5 conversion kit.	LOW
Install more efficient water heater.	MEDIUM

#### ***b) Recommendations with a medium payback***

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

No recommendations of medium term payback have been identified

#### ***c) Recommendations with a long payback***

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

<b>Recommendation</b>	<b>Potential impact</b>
Add weather compensation controls to heating system.	LOW
Consider installing building mounted wind turbine(s).	LOW
Carry out a pressure test, identify and treat identified air leakage. Enter result in EPC calculation.	MEDIUM

#### ***d) Other recommendations***

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

<b>Recommendation</b>	<b>Potential impact</b>
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Consider installing high bay air movement curtains with de-stratification fans in main warehouse. Consider also introducing pvc strips or draught proof corridors for loading and unload docking bays.	MEDIUM
Consider replacing warm air heating and space heating with modern high efficiency types with appropriate control. For high bay application radiant heating should be considered.	MEDIUM
Typically, two-thirds of the heat input into a commercial building is lost through the building fabric. Consider reviewing and mitigating losses through improvements such as draught-proofing and increased insulation particularly on external walls.	MEDIUM

## **4. Next steps**

### ***a) 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 Qualified / Accredited Person has reviewed in the light of his / her knowledge of the building and its use. The Qualified / Accredited Person may have comments on the recommendations based on his / her knowledge of the building and its use.

The Qualified / Accredited Person may have inserted additional measures 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.

### ***b) 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.

### ***c) Complaints***

Details of the Qualified / Accredited Person and the relevant protocol organisation are on this report and the energy performance certificate. You can get contact details of the protocol organisation from our website at [www.sbsa.gov.uk/european\\_issues/epcprotocols](http://www.sbsa.gov.uk/european_issues/epcprotocols).

## 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 have most impact on carbon emissions from the building. For automatically generated recommendations, the carbon impact indicators are determined by software, but may have been adjusted by the Qualified / Accredited Person 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
- For an existing building, produced by a Qualified / Accredited Person who is accredited to produce Recommendation Reports through a Government Approved protocol agreement