

# Secondary Recommendations Report

Not for Official Submission

Building name

## Sample Office Cheltenham

Building type: Office

Date: Fri Nov 07 17:18:34 2008

This report lists recommendations for energy-efficiency improvements to the building.

### Key to colour codes used in this report

Included by the calculation

Included by the user

Excluded by the user

### Recommendations for HEATING

#### HEATING accounts for 29% of the CO2 emissions

The overall energy performance of HEATING provision is GOOD

The overall CO2 performance of HEATING provision is GOOD

The average energy efficiency of HEATING provision is GOOD

The average CO2 efficiency of HEATING provision is GOOD

#### Add local time control to heating system.

Code: EPC-H5

Energy Impact: LOW

CO2 Impact: HIGH

CO2 Saved per £ Spent: POOR

Comments:

#### Add optimum start/stop to the heating system.

Code: EPC-H7

Energy Impact: LOW

CO2 Impact: HIGH

CO2 Saved per £ Spent: GOOD

Comments:

#### Add weather compensation controls to heating system.

Code: EPC-H8

Energy Impact: LOW

CO2 Impact: HIGH

CO2 Saved per £ Spent: POOR

Comments:

#### Add local time control to heating system.

Code: EPC-H5

Energy Impact: LOW

CO2 Impact: LOW

CO2 Saved per £ Spent: POOR

Comments:

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**Add optimum start/stop to the heating system.**

Code: EPC-H7  
Energy Impact: LOW  
CO2 Impact: LOW  
CO2 Saved per £ Spent: GOOD

Comments:

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**Add weather compensation controls to heating system.**

Code: EPC-H8  
Energy Impact: LOW  
CO2 Impact: LOW  
CO2 Saved per £ Spent: POOR

Comments:

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**Add optimum start/stop to the heating system.**

Code: EPC-H7  
Energy Impact: LOW  
CO2 Impact: LOW  
CO2 Saved per £ Spent: FAIR

Comments:

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**Add weather compensation controls to heating system.**

Code: EPC-H8  
Energy Impact: LOW  
CO2 Impact: LOW  
CO2 Saved per £ Spent: POOR

Comments:

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## Recommendations for COOLING

**COOLING accounts for 8% of the CO2 emissions**

The overall energy performance of COOLING provision is FAIR  
The overall CO2 performance of COOLING provision is POOR  
The average energy efficiency of COOLING provision is GOOD  
The average CO2 efficiency of COOLING provision is GOOD

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**Ductwork leakage is high. Inspect and seal ductwork.**

Code: EPC-C3  
Energy Impact: MEDIUM  
CO2 Impact: HIGH  
CO2 Saved per £ Spent: POOR

Comments:

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**Ductwork leakage is high. Inspect and seal ductwork.**

Code: EPC-C3  
Energy Impact: MEDIUM  
CO2 Impact: MEDIUM  
CO2 Saved per £ Spent: POOR

Comments:

## Recommendations for HOT-WATER

### HOT-WATER accounts for 4% of the CO2 emissions

The overall energy performance of HOT-WATER provision is GOOD

The overall CO2 performance of HOT-WATER provision is POOR

The average energy efficiency of HOT-WATER provision is POOR

The average CO2 efficiency of HOT-WATER provision is POOR

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#### Install more efficient water heater.

Code: EPC-W1  
Energy Impact: MEDIUM  
CO2 Impact: MEDIUM  
CO2 Saved per £ Spent: POOR

Comments:

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#### Consider replacing HWS with point of use system.

Code: EPC-W2  
Energy Impact: LOW  
CO2 Impact: LOW  
CO2 Saved per £ Spent: POOR

Comments:

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#### Install more efficient water heater.

Code: EPC-W1  
Energy Impact: LOW  
CO2 Impact: LOW  
CO2 Saved per £ Spent: FAIR

Comments:

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#### Consider replacing HWS with point of use system.

Code: EPC-W2  
Energy Impact: LOW  
CO2 Impact: LOW  
CO2 Saved per £ Spent: POOR

Comments:

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#### Install more efficient water heater.

Code: EPC-W1  
Energy Impact: MEDIUM  
CO2 Impact: MEDIUM  
CO2 Saved per £ Spent: POOR

Comments:

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#### Consider replacing HWS with point of use system.

Code: EPC-W2  
Energy Impact: LOW  
CO2 Impact: LOW  
CO2 Saved per £ Spent: POOR

Comments:

## Recommendations for LIGHTING

### LIGHTING accounts for 44% of the CO2 emissions

The overall energy performance of LIGHTING provision is GOOD

The overall CO2 performance of LIGHTING provision is GOOD

#### Consider replacing T8 lamps with retrofit T5 conversion kit.

Code: EPC-L5  
Energy Impact: LOW  
CO2 Impact: LOW  
CO2 Saved per £ Spent: GOOD

Comments:

#### Introduce HF (high frequency) ballasts for fluorescent tubes: Reduced number of fittings required.

Code: EPC-L7  
Energy Impact: LOW  
CO2 Impact: LOW  
CO2 Saved per £ Spent: GOOD

Comments:

## Recommendations for RENEWABLES

#### Consider installing building mounted wind turbine(s).

Code: EPC-R2  
Energy Impact: LOW  
CO2 Impact: LOW  
CO2 Saved per £ Spent: POOR

Comments:

#### Consider installing solar water heating.

Code: EPC-R3  
Energy Impact: LOW  
CO2 Impact: LOW  
CO2 Saved per £ Spent: POOR

Comments:

#### Consider installing PV.

Code: EPC-R4  
Energy Impact: LOW  
CO2 Impact: LOW  
CO2 Saved per £ Spent: POOR

Comments:

## Recommendations for OVERHEATING

The risk of some spaces in the building OVERHEATING is High risk

**Some spaces have a significant risk of overheating. Consider solar control measures such as the application of reflective coating or shading devices to windows.**

Code: EPC-V1  
Energy Impact: MEDIUM  
CO2 Impact: MEDIUM  
CO2 Saved per £ Spent: POOR

Comments:

## Recommendations for ENVELOPE

**Some windows have high U-values - consider installing secondary glazing.**

Code: EPC-E5  
Energy Impact: MEDIUM  
CO2 Impact: MEDIUM  
CO2 Saved per £ Spent: FAIR

Comments:

**Some glazing is poorly insulated. Replace/improve glazing and/or frames.**

Code: EPC-E8  
Energy Impact: MEDIUM  
CO2 Impact: MEDIUM  
CO2 Saved per £ Spent: POOR

Comments:

## Recommendations for FUEL-SWITCHING

**Consider switching from gas to biomass.**

Code: EPC-F5  
Energy Impact: LOW  
CO2 Impact: HIGH  
CO2 Saved per £ Spent: GOOD

Comments:

## Recommendations for AUXILIARY

**AUXILIARY accounts for 15% of the CO2 emissions**

The overall energy performance of AUXILIARY provision is POOR

The overall CO2 performance of AUXILIARY provision is POOR

There are no recommendations for AUXILIARY

## Recommendations for OTHER

There are no recommendations for OTHER