

Secondary Recommendations Report

Not for Official Submission

Building name

Date: Fri Jun 24 12:46:08 2022

Bartholemew Building, Eynsham

Building type: Non-residential Institutions: Community/Day Centre

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 93.8% of the CO2 emissions

(If hot water is provided by the HVAC system, then the % of CO2 emissions includes hot water provision)

The overall energy performance of HEATING provision is FAIR

The overall CO2 performance of HEATING provision is FAIR

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: MEDIUM
CO2 Impact: MEDIUM
CO2 Saved per £ Spent: FAIR
Applicable to: Whole building

Comments:

Add optimum start/stop to the heating system.

Code: EPC-H7
Energy Impact: MEDIUM
CO2 Impact: MEDIUM
CO2 Saved per £ Spent: GOOD
Applicable to: Whole building

Comments:

Add weather compensation controls to heating system.

Code: EPC-H8
Energy Impact: MEDIUM
CO2 Impact: MEDIUM
CO2 Saved per £ Spent: GOOD
Applicable to: Whole building

Comments:

Add local time control to heating system.

Code: EPC-H5
Energy Impact: MEDIUM

CO2 Impact: MEDIUM
CO2 Saved per £ Spent: FAIR
Applicable to: Central heating

Comments:

Add optimum start/stop to the heating system.

Code: EPC-H7
Energy Impact: MEDIUM
CO2 Impact: MEDIUM
CO2 Saved per £ Spent: GOOD
Applicable to: Central heating

Comments:

Add weather compensation controls to heating system.

Code: EPC-H8
Energy Impact: MEDIUM
CO2 Impact: MEDIUM
CO2 Saved per £ Spent: GOOD
Applicable to: Central heating

Comments:

Recommendations for COOLING

COOLING accounts for 0% of the CO2 emissions

The overall energy performance of COOLING provision is NOT APPLICABLE

The overall CO2 performance of COOLING provision is NOT APPLICABLE

The average energy efficiency of COOLING provision is NOT APPLICABLE

The average CO2 efficiency of COOLING provision is NOT APPLICABLE

There are no recommendations for COOLING

Recommendations for HOT-WATER

HOT-WATER accounts for 0% of the CO2 emissions

(If hot water is provided by the HVAC system, then hot water provision is included in the % of CO2 emissions due to HEATING)

The overall energy performance of HOT-WATER provision is FAIR

The overall CO2 performance of HOT-WATER provision is FAIR

The average energy efficiency of HOT-WATER provision is NOT APPLICABLE

The average CO2 efficiency of HOT-WATER provision is NOT APPLICABLE

Install more efficient water heater.

Code: EPC-W1
Energy Impact: LOW
CO2 Impact: LOW
CO2 Saved per £ Spent: POOR
Applicable to: Default HWS

Comments:

Consider replacing HWS with point of use system.

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

Applicable to: Default HWS

Comments:

Recommendations for LIGHTING

LIGHTING accounts for 5.5% of the CO2 emissions

The overall energy performance of LIGHTING provision is POOR

The overall CO2 performance of LIGHTING provision is POOR

This recommendation was excluded by the assessor.

Consider replacing T8 lamps with retrofit T5 conversion kit.

Code:	EPC-L5
Energy Impact:	HIGH
CO2 Impact:	HIGH
CO2 Saved per £ Spent:	GOOD
Applicable to:	Whole building

Comments: T8 luminaires are HE.

Recommendations for RENEWABLES

This recommendation was excluded by the assessor.

Consider installing building mounted wind turbine(s).

Code:	EPC-R2
Energy Impact:	HIGH
CO2 Impact:	HIGH
CO2 Saved per £ Spent:	GOOD
Applicable to:	Whole building

Comments: Not feasible as Listed Building.

This recommendation was excluded by the assessor.

Consider installing solar water heating.

Code:	EPC-R3
Energy Impact:	HIGH
CO2 Impact:	HIGH
CO2 Saved per £ Spent:	GOOD
Applicable to:	Whole building

Comments: Not feasible as Listed Building.

This recommendation was excluded by the assessor.

Consider installing PV.

Code:	EPC-R4
Energy Impact:	HIGH
CO2 Impact:	HIGH
CO2 Saved per £ Spent:	GOOD
Applicable to:	Whole building

Comments: Not feasible as Listed Building.

Recommendations for OVERHEATING

There are no recommendations for OVERHEATING

Recommendations for ENVELOPE

Some solid walls are poorly insulated - introduce or improve internal wall insulation.

Code: EPC-E3
Energy Impact: MEDIUM
CO2 Impact: MEDIUM
CO2 Saved per £ Spent: FAIR
Applicable to: Whole building

Comments: Listed Building Consent may be required.

This recommendation was excluded by the assessor.

Some walls have uninsulated cavities - introduce cavity wall insulation.

Code: EPC-E4
Energy Impact: HIGH
CO2 Impact: HIGH
CO2 Saved per £ Spent: GOOD
Applicable to: Whole building

Comments: N/A - solid external walls.

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

Code: EPC-E5
Energy Impact: MEDIUM
CO2 Impact: MEDIUM
CO2 Saved per £ Spent: GOOD
Applicable to: Whole building

Comments: Listed Building Consent may be required.

This recommendation was excluded by the assessor.

Carry out a pressure test, identify and treat identified air leakage. Enter result in EPC calculation.

Code: EPC-E7
Energy Impact: HIGH
CO2 Impact: HIGH
CO2 Saved per £ Spent: GOOD
Applicable to: Whole building

Comments: Given the age, type and constructional detailing of the property, air permeability is likely to be within Convention tolerances.

This recommendation was excluded by the assessor.

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

Code: EPC-E8
Energy Impact: HIGH
CO2 Impact: HIGH
CO2 Saved per £ Spent: GOOD
Applicable to: Whole building

Comments: Not feasible as Listed Building.

Recommendations for FUEL-SWITCHING

This recommendation was excluded by the assessor.

Consider switching from gas to biomass.

Code:	EPC-F5
Energy Impact:	HIGH
CO2 Impact:	HIGH
CO2 Saved per £ Spent:	GOOD
Applicable to:	Whole building

Comments: Landlocked property with no space for pellet store etc within demise.

This recommendation was excluded by the assessor.

Consider switching from gas to biomass.

Code:	EPC-F5
Energy Impact:	HIGH
CO2 Impact:	HIGH
CO2 Saved per £ Spent:	GOOD
Applicable to:	Central heating

Comments: Landlocked property with no space for pellet store etc within demise.

Recommendations for AUXILIARY

AUXILIARY accounts for 0.7% of the CO2 emissions

The overall energy performance of AUXILIARY provision is FAIR

The overall CO2 performance of AUXILIARY provision is FAIR

There are no recommendations for AUXILIARY

Recommendations for OTHER

There are no recommendations for OTHER