Supplementary Report

Not for Official Submission

Building name **Date:** Sat Aug 07 10:18:05 2021

Ballyphanne CC

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 8.3% of the CO2 emissions
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 FAIR
The average CO2 efficiency of HEATING provision is FAIR

Add time control to heating system.

Code:	EPC-H2
Energy Impact:	LOW
CO2 Impact:	LOW
CO2 Saved per Euro Spent:	FAIR
Applicable to:	Whole building

Comments:

Add local time control to heating system.

Code:	EPC-H5
Energy Impact:	LOW
CO2 Impact:	LOW
CO2 Saved per Euro Spent:	POOR
Applicable to:	Whole building

Comments:

Add local temperature control to the heating system.

Code:	EPC-H6
Energy Impact:	LOW
CO2 Impact:	LOW
CO2 Saved per Euro Spent:	POOR
Applicable to:	Whole building

Comments:

Add optimum start/stop to the heating system.

Code:	EPC-H7
Energy Impact:	LOW
CO2 Impact:	LOW

CO2 Saved per Euro Spent: FAIR
Applicable to: Whole building

Comments:

Add weather compensation controls to heating system.

Code: EPC-H8
Energy Impact: LOW
CO2 Impact: LOW
CO2 Saved per Euro Spent: POOR
Applicable to: Whole building

Comments:

Consider replacing heating boiler plant with a condensing type.

Code: EPC-H3
Energy Impact: MEDIUM
CO2 Impact: MEDIUM
CO2 Saved per Euro Spent: POOR
Applicable to: Whole building

Comments:

The default heat generator efficiency is chosen. It is recommended that the heat generator system be investigated to gain an understanding of its efficiency and possible improvements.

Code: EPC-H4
Energy Impact: LOW
CO2 Impact: LOW
CO2 Saved per Euro Spent: POOR
Applicable to: Whole building

Comments:

Consider replacing heating boiler plant with a condensing type.

Code: EPC-H3
Energy Impact: MEDIUM
CO2 Impact: MEDIUM
CO2 Saved per Euro Spent: POOR
Applicable to: Gas

Comments:

The default heat generator efficiency is chosen. It is recommended that the heat generator system be investigated to gain an understanding of its efficiency and possible improvements.

Code: EPC-H4
Energy Impact: LOW
CO2 Impact: LOW
CO2 Saved per Euro Spent: POOR
Applicable to: Gas

Comments:

Add time control to heating system.

Code: EPC-H2
Energy Impact: LOW
CO2 Impact: LOW
CO2 Saved per Euro Spent: FAIR
Applicable to: Gas

Comments:

Add local time control to heating system.

Code: EPC-H5
Energy Impact: LOW
CO2 Impact: LOW
CO2 Saved per Euro Spent: POOR
Applicable to: Gas

Comments:

Add local temperature control to the heating system.

Code: EPC-H6
Energy Impact: LOW
CO2 Impact: LOW
CO2 Saved per Euro Spent: POOR
Applicable to: Gas

Comments:

Add optimum start/stop to the heating system.

Code: EPC-H7
Energy Impact: LOW
CO2 Impact: LOW
CO2 Saved per Euro Spent: FAIR
Applicable to: Gas

Comments:

Add weather compensation controls to heating system.

Code: EPC-H8
Energy Impact: LOW
CO2 Impact: LOW
CO2 Saved per Euro Spent: POOR
Applicable to: Gas

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 76.8% of the CO2 emissions
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 POOR
The average CO2 efficiency of HOT-WATER provision is POOR

Install more efficient water heater.

Code: EPC-W1
Energy Impact: HIGH
CO2 Impact: HIGH

CO2 Saved per Euro Spent: GOOD
Applicable to: Whole building

Comments:

Consider replacing HWS with point of use system.

Code: EPC-W2
Energy Impact: HIGH
CO2 Impact: HIGH
CO2 Saved per Euro Spent: GOOD
Applicable to: Whole building

Comments:

Install more efficient water heater.

Code: EPC-W1
Energy Impact: HIGH
CO2 Impact: HIGH
CO2 Saved per Euro Spent: GOOD
Applicable to: Default HWS

Comments:

Consider replacing HWS with point of use system.

Code: EPC-W2
Energy Impact: HIGH
CO2 Impact: HIGH
CO2 Saved per Euro Spent: GOOD
Applicable to: Default HWS

Comments:

Recommendations for LIGHTING

LIGHTING accounts for 13.8% of the CO2 emissions
The overall energy performance of LIGHTING provision is FAIR
The overall CO2 performance of LIGHTING provision is FAIR

Consider replacing T8 lamps with retrofit T5 conversion kit.

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

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 Euro Spent: GOOD
Applicable to: Whole building

Comments:

Recommendations for RENEWABLES

Consider installing building mounted wind turbine(s).

Code: EPC-R2
Energy Impact: LOW
CO2 Impact: LOW
CO2 Saved per Euro Spent: POOR
Applicable to: Whole building

Comments:

Consider installing solar water heating.

Code: EPC-R3
Energy Impact: LOW
CO2 Impact: LOW
CO2 Saved per Euro Spent: POOR
Applicable to: Whole building

Comments:

Consider installing PV.

Code: EPC-R4
Energy Impact: LOW
CO2 Impact: LOW
CO2 Saved per Euro Spent: POOR
Applicable to: Whole building

Comments:

Recommendations for OVERHEATING

In some spaces, the solar gain limit specified in the NEAP is exceeded, which might cause 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 Euro Spent: POOR
Applicable to: Whole building

Comments:

Recommendations for ENVELOPE

Some floors are poorly insulated - introduce and/or improve insulation. Add insulation to the exposed surfaces of floors adjacent to underground, unheated spaces or exterior.

Code: EPC-E1
Energy Impact: MEDIUM
CO2 Impact: MEDIUM
CO2 Saved per Euro Spent: POOR
Applicable to: Whole building

Comments:

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

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

Comments:

Some walls have uninsulated cavities - introduce cavity wall insulation.

Code:	EPC-E4
Energy Impact:	MEDIUM
CO2 Impact:	MEDIUM
CO2 Saved per Euro Spent:	POOR
Applicable to:	Whole building

Comments:

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

Code:	EPC-E7
Energy Impact:	MEDIUM
CO2 Impact:	MEDIUM
CO2 Saved per Euro Spent:	POOR
Applicable to:	Whole building

Comments:

Recommendations for FUEL-SWITCHING

Consider switching from gas to biomass.

Code:	EPC-F5
Energy Impact:	LOW
CO2 Impact:	HIGH
CO2 Saved per Euro Spent:	GOOD
Applicable to:	Gas

Comments:

Recommendations for AUXILIARY

AUXILIARY accounts for 1.1% 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