Climate Impact Assessment
WAR-9707-25
04-03-2025

Warm Homes Local Grant

Project details

Assessment author

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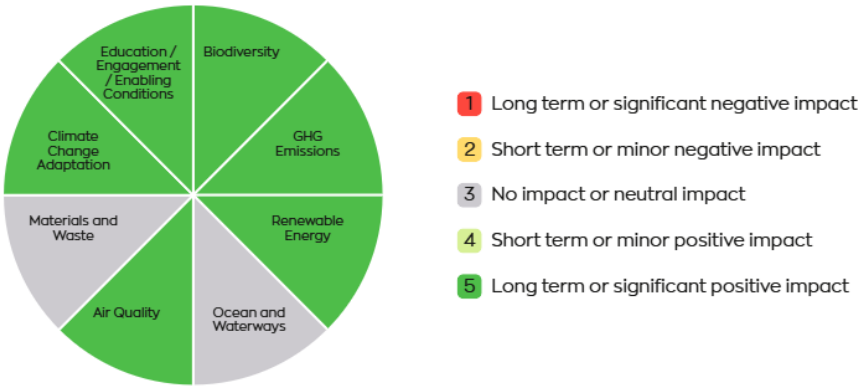
Project summary

Plymouth City Council has secured £3,024,995.00 of grant funding from the Central Government department of Energy Security and Net Zero (DESNZ), to fully fund the retrofit of 207 eligible privately owned and privately rented homes over the period of the Warm Homes: Local Grant duration from 01/04/2025 – 31/03/2028.

The retrofitted home improvements must focus on improving the thermal performance of the building fabric, or increase the energy efficiency of the heating provision. These improvements are known as retrofit measures which lead to an overall improvement in the homes energy efficiency.
In improving the thermal performance of the home there will also be a key drive to improve the thermal comfort of the occupiers and the internal health of the homes.
The funding is targeted at low income and fuel poor households, to fully fund their home improvements, with a maximum allowance of £15,000.00 spent on energy efficiency measures, and £15,000.00 on low carbon heat improvement measures. As a result a home can receive up to £30,000.00 of retrofit improvements

Summary of assessment



Overall this project generates long term positive climate impact in the following areas: - Biodiversity- GHG Emissions - Renewable Energy- Air Quality- Climate Change Adaptation- Education/ Engagement/ Enabling Conditions.

Currently there is not a directly positive climate impact to: - Materials and Waste- Ocean Waterways.

However, there is the opportunity to use this project to steer an improvement in retrofit practise when and where it interacts with these 2 x areas. to ensure continual improvement is driven to ensure these areas also benefit from the retrofit delivery within the city.

Assessment scores

Biodiversity

Score

(5) Long lasting or extensive positive impact

Score justification

Nature conservation is not enhanced, however retrofit delivery will lead to heating interventions and improvements in privately owned and rented homes across the city; providing fully funded solutions to move homes away from reliance on open fires; wood burners; oil fuelled heating and gas fired central heating (all that emit pollutants into the atmosphere), and instead offer efficient replacements, such as electrically powered air source heat pumps, or solar pV to power electrically operated High Heat Retention Storage
Heaters, which will reduce/ mitigate localised & national GHG emissions and particulate matter pollution from fossil fuel generated heating sources, and work towards improving the internal and external air quality, which may aid biodiversity improvements.

GHG Emissions

Score

(5) Long lasting or extensive positive impact

Score justification

The installation of effective renewable tech such as pV, or the replacement of gas boilers with ASHP, where the co-efficient is >3:1 will further reduce/mitigate GHG emissions

Renewable Energy

Score

(5) Long lasting or extensive positive impact

Score justification

The installation of effective renewable tech such as pV, coupled with battery storage or the replacement of gas boilers with low carbon heating solutions such as ASHP, where the co-efficient is >3:1 will further reduce/ mitigate GHG emissions

Ocean and Waterways

Score

(3) No impact or neutral impact

Score justification

It is not possible to record direct impact of retrofit delivery. However, retrofit delivery facilitates and funds the transition of a home away from oil or LPG heating methods, by installing low carbon alternatives. By changing a homes heating method from oil, removes the need for an oil tank, and removes the risk of a leak from the tank into the ground water or a spillage from the tank refill process, which could end up in a local water source or surface drainage which could potentially flow into local water source

Air Quality

Score

(5) Long lasting or extensive positive impact

Score justification

Retrofit delivery will lead to heating interventions and improvements in privately owned and rented homes across the city; providing fully funded solutions to move homes away from reliance on open fires; wood burners; oil fuelled heating and gas fired central heating (all that emit pollutants into the atmosphere), and instead offer efficient replacements, such as electrically powered air source heat pumps, or solar pV to power electrically operated High Heat Retention Storage Heaters, which will reduce/ mitigate localised & national GHG emissions and particulate matter pollution from fossil fuel generated heating sources, and work towards improving the internal and external air quality, which may aid biodiversity improvements.

Materials and Waste

Score

(3) No impact or neutral impact

Score justification

Retrofit Delivery may likely generate some waste products such as radiators, inefficient storage heaters; gas boilers, window and door replacements; packaging from insulation products Most product wrapping is recyclable, and the contractors will need to follow their company policies in correctly disposing of packaging.
All contractors will need to follow their company policy and procedures in correctly disposing of waste or obsolete items, especially if they contain any hazardous substances. Should they contain hazardous substances, the correct waste transfer notes will be required to be obtained to evidence and audit trail of how item was removed - such as asbestos tiles from a roof, prior to pV being installed

Climate Change Adaptation

Score

(5) Long lasting or extensive positive impact

Score justification

Yes - each home will receive a full survey from appropriately qualified Retrofit Assessor, which will be reviewed by Plymouth Energy Community's Retrofit Specifier, and overseen by a third party Retrofit Co-Ordinator to ensure the improvement and interventions provided to each home are in line with considerations of cooling as well as heating requirements, to ensure the residents are protected from the property overheating in summer months, and sufficiently ventilated to mitigate/ minimise damp, especially due to the geographical location of Plymouth, whereby being in the SW we have a higher level of exposure to driven wet rain, which saturates house walls and humid weather conditions, which aids the growth of mould should the home not be dry and ventilated enough to prevent this.

Education / Engagement / Enabling Conditions

Score

(5) Long lasting or extensive positive impact

Score justification

Yes - the Energy
Efficiency Dynamic Purchasing System will be developed to support local micro and SME businesses in upskilling to PAS2030 certification/ standard, which will enable the retrofit funding secured to be invested back into Plymouths local economy. In doing so an aim is to collaborate with the city college to increase the PAS2030 training courses available to upskill Plymouths workforce to this standard in delivering either fabric first or low carbon heat installations. In addition to the local economy, Plymouth will work with over 500 x residents to improve their homes thermal and energy performance, which in turn will build this awareness into the residents in receipt of grant funded improvements, and through word of mouth they may increase awareness on retrofit amongst their friends and family. We hope retrofit could also become an education piece of learning among school age children, who could actively participate in this learning through school engagement events or through education clubs within local communities.