

Sustainable Design and Construction Statement

As part of the proposals to re-build and extend the existing co-op store on Hugh Street. The Co-Operative Group (the applicant) are committed to improving the sustainability of the store. The two main areas being addressed are energy demand and energy efficiency.

Sustainable Design

As part of the extension and refit of the store we are actively reducing the energy demand of the store. Measures taken to do this include the replacement of all light fittings throughout the store with a new LED lighting system, vastly reducing the energy consumption.

The existing refrigeration system is currently a mixture of electrically powered "plug in" integral units and units running off a synthetic refrigerant. As part of the refurbishment works the refrigeration system will be replaced with a CO2 system. The advantage of the CO2 system is that it requires much less power to operate. The removal of the integral refrigeration will also reduce heat build up in the store, which will in turn reduce the duty on the buildings cooling system. Therefore, reducing the overall energy demand.

The Isles of Scilly's remote location has also been considered as part of the proposals. The Co-op fully appreciate that the store is a lifeline to people living on the islands. The store has recently suffered from some major refrigeration issues which has resulted in a loss of range for customers. It can often take a long time for replacement parts to be delivered from the mainland. The new refrigeration design will utilize a dual system, building in resilience to the stores operation.

Where possible all new refrigeration cases will now be fitted with doors to reduce cooling and energy demand.

Sustainable Construction

As part of this application it proposed that the single storey rear warehouse is to be demolished and re-constructed. The warehouse is currently constructed on single skin masonry and un-insulated roof. The warehouse will be fully re-built in line with current building regulations and Part L requirements. Reducing the heating and cooling loads on the store.

A full re-wire and replacement of all mechanical and electrical installations will be carried out as part of the project. Making the store compliant with all current building regulations.

