

Energy Statement

(Policy JP-S2: Carbon and Energy)

The existing buildings are being fully refurbished, so will introduce insulated lining to the internal walls, all lofts will be insulated, flat roofs will be recovered and incorporate insulation, ground floors will have raised floating floor incorporating insulation. All windows will be high performance double glazed. The new build will be insulated to modern standards, better than required by Building Regulations.

The new dwellings will be sealed to achieve an air tightness of 5 m³/h/m² @ 50Pa and may have Mechanical Heat Recovery Ventilation (MHRV) installed if necessary.

Space heating will be provided using a combination of underfloor heating and large radiators served by a heat pump (either ground source or air source, which is still to be determined).

Hot water will be provided via hot water cylinders served by a heat pump as well as solar thermal panels.

The new dwellings will have suitable fittings and appliances installed that enable a maximum projected water usage of 125 litres/person/day to be achieved.

Photovoltaic panels will be sited on the flat roofs, quantity suitable to achieve zero carbon.

During the detailed design stage, SAP calculations will be produced in order to fully inform the design to determine the extent of the renewable technology required to achieve Net Zero Carbon.

One electric vehicle charging points will be provided for each dwelling.

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