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## **Sustainable Design Measures January 2023, 200/004/A**

### **Description of Project**

Demolition and rebuilding of semi-detached two-storey dormer bungalow. The replacement dwelling will have a modest extension to the south, with re-modelled accommodation comprising: Ground Floor - Reception hall & stairwell, kitchen / day room, three bedrooms (one with en-suite shower room), separate shower room, utility room. First Floor - Lounge opening onto balcony, master bedroom with en-suite bathroom, separate wc. Overall, the finished building will be to the same design as that approved in P21/038/HH.

### **Address of Property**

Penold, Church Road, St Marys, Isles of Scilly TR21 0NA.

### **Sustainable Design Measures Proposed**

The following measures will be incorporated in the scheme:

#### Solar Thermal Water Heating

The scheme will incorporate an array of solar thermal panels on the West facing sloping roof, sized in accordance with the M&E contractor's calculations. Further details will be provided as the design progresses.

The scheme will include wet underfloor heating to allow lower flow temperatures and therefore improved efficiencies.

#### Upgraded Insulation

The replacement dwelling will be designed, subject to the constraints of the adjoining dwelling, in accordance with Part L of the Building Regulations (Conservation of fuel and power).