

CLIENT: SHOTTON PARISH COUNCIL

PROJECT: SHOTTON OUTREACH COMMUNITY YOUTH HUB

SOLAR PV & BATTERY STORAGE - SPECIFICATION

The installation, with all necessary equipment and accessories, is to provide a fully functional 28.8kWp solar PV system using 400W panels. This should comply with the latest version of MIS 3002 The Solar PV Standard (Installation) and be installed by a MCS certified installer.

Also, 28kWh battery storage installation to be in accordance with the latest version of MIS 3012 The Battery Standard. Output, in kW, to suit the demand of the heat pump system.

All electrical services installations shall comply to BS7671:2008 17th Edition IEE Wiring Regulations and all amendments, CIBSE codes, relevant British standards and other good practice guidelines.

Allow for the following in your cost:

- Panels to be Tier 1
- 3 phase inverter
- All metering to be OFGEM accredited
- All roof fixings and rails to be suitable for Kingspan KS1000RW and installed in accordance with manufacturer's instructions
- All fixing and cable entry points to be fully waterproof
- Cables and power lines to the AC side must be protected
- Systems installed must not breach any fire compartmentation
- Installation to be separated from any existing lightning protection system
- Location of the inverters and battery storage to be adjacent to the incoming electrical supply
- Taking over Certificate following continuous operation of at least 120 hours
- Training on the safe operation of the system
- Operation and maintenance manuals

Warranties

The following warranties to be included:

- Solar PV system – 10 year product warranty (materials and labour)
- Solar PV panels – 25-year limited power warranty (10 years at 90% power output and 25 years at 80% power output)
- Inverters – minimum 10 years
- Batteries – 10 years (subject to a number of cycles)