

YORKSHIRE NORTH & EAST METHODIST DISTRICT - PATHWAYS TO NET ZERO

PROJECT: ST JOHN METHODIST CHURCH, MARKET WEIGHTON

SOLAR PV & BATTERY STORAGE - SPECIFICATION

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

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.

The installation requirements are as follows (refer to accompanying Church Information document), though exact figures will depend on the installers preferred equipment:

- St. John Methodist Church, Market Place, Market Weighton YO43 3AJ: 14kWp roof mounted solar PV on the east and west facing roofs, total capacity 28kWp solar PV plus 20kWh battery storage

Allow for the following in your cost:

- Structural Engineer design calculations to establish the roof is capable of taking the additional load of the PV system issued prior to installation
- G99 application to Northern Powergrid
- No deliveries or material storage on site without prior agreement of the church
- All scaffolding and access systems which should be in place for the minimum amount of time to undertake the works
- Include for wired bird mesh securely fixed
- All associated builders work
- Roof anchors must be strong enough to withstand a fire
- All metering to be OFGEM accredited
- All roof fixings 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
- Indicative locations of the inverters and battery storage shown; to be confirmed
- Data/network connection for remote monitoring by client
- Taking over Certificate following continuous operation of at least 120 hours
- Training on the safe operation of the system and how to monitor generation, usage, export using the appropriate app.
- Operation and maintenance manuals, including all information required for SEG

Warranties

The following warranties to be included:

D3A-1838-000-T13-R1

- Solar PV system – minimum 5 year product warranty (materials and labour)
- Workmanship and materials – 2 years
- Solar PV panels – 25-year limited power warranty (10 years at 90% power output and 25 years at 80% power output)
- Inverters – 10 years
- Batteries – 10 years (subject to a number of cycles)