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Quotation: Design and Installation of a Solar PV System

Size of System 4.5KwP

Energy generated per annum 3862 kWh

The works to be carried out are as follows:

- All Materials are included in this price and include:
- 10 x 455w Black Solar Panels
- 1 x 13.5kW Tesla Power Wall 3 battery storage all in one with full house back up in the event of a power cut.(battery can be mounted outside next to heat pump if required)
- Fixing system - On Roof
- 6mm PV cable
- Isolators AC & DC - Crauss & Namier
- Generation Meter - Elster A100C/Landis + Gyr E110
- Scaffolding is included in this quotation
- 1 x DNO application this is the fee paid to Northern Power Grid (not included in our quotation) ,to allow you to connect a solar generator to the grid which has a rating greater than 3.68 kwp, the approval process can take up to six weeks for approval and the fee can range from £600- £800 + Vat dependant on the work required , if the system is not registered with Northern Power Grid they have the legal right to make you remove it from their network.
- This quotation gives you all the possible options available and can be altered to a smaller system to suit your requirements.

Total Cost:

Time Nett:	£ 2,555.00
Materials Nett:	£ 11,247.40
Additional Nett:	£ 0.00
VAT:	£ 0.00
Gross:	£ 13,802.40

Materials / Specifics: (please see the data sheet on the next page)

Data Sheet:

Item#	Description	Quantity
1	455w Solar Panels	10
2	13.5kW Tesla Power Wall 3	1
3	On Roof - Roof Rails	8
4	On Roof - Roof Hooks	28
5	On Roof - Roof Joiners	4
6	On Roof - Mid Clamps	20
7	On Roof - End Clamps	8
8	On Roof - End Caps	8
9	AC Isolators	1
10	DC Isolators	2
11	AC Cabling	50
12	DC Cabling	100
13	Generation Meter	1
14	Conduit/Trunking 50x50	5
15	General Fixings	1
16	AC Connection into Distribution Board	1
17	Energy Meter	1
18	CT Clamp	1
19	Scaffolding Contactor	1
20	Certification MCS & Part P	1
21	Admin Charges	1
22	Dawwi Insurance	1

Exclusions

This quotation does not include the replacement of any pre-existing damaged Roof Tiles. Should repair to the roof be required whilst scaffolding is in place a separate quotation can be provided. This quotation does not include any other works required to any structural works to the roof needed following the structural engineers report (see Roof Survey below). It is assumed that the existing electrical installation including earth bonding meets current wiring regulations. Any remedial works are not included in this quotation.

Supply and Validity

All goods and services are to be supplied by IWE Services Limited. This quotation is valid for a period of 30 days from the date it was created Predicted System Performance. The performance of Solar PV Systems is impossible to predict with certainty due to the variability in the amount of solar radiation (sunlight) from location to location and from year to year. This estimate is based upon the standard MCS procedure and is given as guidance only. It should not be considered a guarantee of performance. This system performance calculation has been undertaken using estimated values for array orientation, inclination or shading. Actual performance may be significantly lower or higher if the characteristics of the installed system vary from the estimated values.

Estimated system Performance

Energy Supplied annually by a solar system - Solar Input (Qs) 1602 Annual CO2 Saving (tonnes) The estimated annual CO2 saving of this installation would be. This is calculated at 0.529kg Co2 per kWh generated 0.85

Roof Survey

During our site survey, we will conduct a roof survey to ensure your roof can accommodate the additional loads associated with a Solar PV installation. We will provide in your handover pack a PV Design Specification which includes Roof Loading and Wind Tolerance calculations. Planning Permission and Building Control if your property is a listed building or you are in a conservation area you may need planning permission. You are responsible for contacting your local planning authority to obtain confirmation that planning permission is not required. IWE Services Limited cannot be held responsible for any installations carried out where planning permission was required but not obtained and no refunds will be offered. Upon completion of the installation we will notify Building Control who will forward the relevant documentation to you.

Warranty

IWE Services Limited warranty for workmanship is 2 year and is insurance backed. This is in addition to the Panel and Inverter manufacturers own product warranty which is usually 10 years for panels and 5 years for inverters, this does vary from manufacturer to manufacturer. It is the customers responsibility to check and complete any follow up or registration – if required. Full warranty details are provided with the customers Handover pack following installation.

Insurances - Public Liability - £5 Million & Employers Liability - £2 Million.

Acceptance

To confirm your acceptance of this quotation please telephone us on 01944 710641. We will then prepare and send your order, contract and Invoice detailing full terms and conditions and details of the deposit required. Included in the contract is a cancellation form, should you wish to cancel the contract you have a 7 working day **Cooling Off Period** during which you may cancel the contract without penalty

Deposits and Advance Payments

On signing of the contract, a deposit will be required (Please see below) and on receipt of the deposit materials will be placed on order and an installation date will be arranged. Your deposit will be registered with the REAL Assurance Deposit and Advance Payment Guarantee Scheme, further details will be given with the contract. Final payment will be required on immediate completion.

DEPOSIT REQUIRED UPON ACCEPTANCE OF QUOTATION

£ 2,760.48

System Handover

On completion of your installation we will provide a comprehensive hand over pack which will include all the necessary certification, warranty details, instruction manuals and operations guides for the system.

Signature

for and on behalf of IWE Services Limited

Payback Calculations

Please see attached the Payback Calculation

Financial Results

Please Note: These figures are given as a guide only. The Performance of solar PV systems is impossible to predict with certainty due to the variability in the amount of solar radiation (sunlight) from location to location and from year to year. This estimate is based upon the Government's standard assessment procedure for energy rating of buildings (SAP) and is given as guidance only. It should not be considered as a guarantee of performance.