

CAMDON

Making A Difference

Camdon Limited
Rutherford House, Warrington Road
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Desk Based Solar System Performance Specification and Quotation

For
Iver Parish Council
High Street
Iver
SL0 9PW

Produced By
Mr Richard Mcleen

18th May 2023

Ref: IPC02

Camdon LTD trading as CAMDON
Registered Office: 2nd Floor Fairbank House, 27 Ashley Road, Altrincham, WA14 2DP
Company Registered in England and Wales No 6980790, VAT number: 978 7119 82

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Project Summary

Iver Parish Council are seeking ways to make their properties greener and leaner. Therefore, the Jubilee Hall as shown in the image above would benefit from a Solar array.

The system shall consist of a panel array located on an Aluminium frame with panels positioned for maximum solar gains on the South facing roof. The total number of panels is 42 panels each generating 415 watts. One commercial Solis (15kW) three phase inverter is to be connected to the sites current electrical distribution system to ensure the electricity generated takes priority and is utilised prior to drawing energy from the grid. The inverter will be located where the distribution board is in the main building.

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Specific Requirements

1. The largest possible return on investment.
2. Reliable high output panels that will deliver a significant amount of the electricity consumed.
3. No damage to the roof.
4. Long warranty on the panels and inverter.

The design of the system shall meet:

- All current UK Regulatory Standards and Code of Practice
- CIBSE technical requirements
- British and European Harmonised Standards
- Health and Safety Executive Guidance
- MCS Accredited installation
- OFGEM Approved installation
- NAPPIT certification.

Photo Voltaic Scheme

A total panel array of 42 x JA Solar 415w panels delivering a maximum output of circa 17.43kW will be installed on the roof area which is a steel structure. An Aluminium frame is to be constructed for mounting the PV panels protecting the roof.

1 in number 15Kw inverter is to be located internally adjacent the main distribution boards and incoming supply. The inverter is backed by a manufacturer's 10-year warranty year and the panels a 20-year warranty.

All required elements are within the quoted cost including data logging and all energy monitoring including energy generation. Scaffolding and safety equipment required is again within the scope.

Number of panels: 42

Type of panel: JA Solar 415w monocrystalline

Number of Inverters: 1

Type of Inverter: Solis (15)

Average Estimated Annual Yield: 15,210kwh

Average Annual Financial gain would be as follows:

70% of power generated for self-consumption i.e., circa 10,647 kWh @ 36p rate = £3,833.00

Project Cost: £25,000.00+vat

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This project may be eligible for 100% funding via the HS2 Community Grant scheme.

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