

CAMDON

Making A Difference

Camdon Limited
Rutherford House, Warrington Road
Birchwood Park, Warrington, Cheshire, WA3 6ZH
Tel: 0845 475 0003
Fax: 0845 475 0433
Email: info@camdon.co.uk
Website: www.camdon.co.uk

Desk Based Solar System Performance Specification and Quotation

For
Iver Parish Council
Church Road
Iver
SLO ORF

Produced By
Mr Richard Mcleen

18th May 2023

Ref: IPC03

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

CAMDON

Making A Difference

Camdon Limited

Rutherford House, Warrington Road

Birchwood Park, Warrington, Cheshire, WA3 6ZH

Tel: 0845 475 0003

Fax: 0845 475 0433

Email: info@camdon.co.uk

Website: www.camdon.co.uk



Project Summary

Iver Parish Council are seeking ways to make their properties greener and leaner. Therefore, the Recreation Ground 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 24 panels each generating 415 watts. Two commercial Solis (5kW) 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 inverters will be located in the same location as where the meter is located. I am also recommending a battery storage system as it looks pretty convincing that the Tennis Floodlights form a large part of the consumption, therefore, it makes sense to store some power towards the tennis floodlights.

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

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 24 x JA Solar 415w panels delivering a maximum output of circa 9.96kW 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.

2 in number 5Kw inverters are to be located 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: 24

Type of panel: JA Solar 415w monocrystalline

Number of Inverters: 2

Type of Inverter: Solis (5kW)

Average Estimated Annual Yield: 8,690kwh

Battery Storage System

Install 1 x 5kW Solar storage battery in an IP rated case on the outer wall of the building.

Average Annual Financial gain would be as follows:

90% of power generated for self-consumption i.e., circa 7,821 kWh @ 36p rate = £2,815.00

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

CAMDON

Making A Difference

Camdon Limited
Rutherford House, Warrington Road
Birchwood Park, Warrington, Cheshire, WA3 6ZH
Tel: 0845 475 0003
Fax: 0845 475 0433
Email: info@camdon.co.uk
Website: www.camdon.co.uk

Solar Project Cost: £16,000.00+vat

Solar Storage Battery Cost: £8,500.00+vat

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

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