



GMPV PRE-APPLICATION DESCRIPTION

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1.0 REFERENCE DOCUMENTS

Document Number	Description
ZLC-CHINA-FLEET-PLANNING-Location_Plan.Rev*	Site Location Plan Showing Ownership and Site Boundaries
ZLC-CHINA-FLEET-PLANNING-Site_Plan.Rev*	Site Layout Plan Showing PV Array
China Fleet GMPV-Pre-Application-Form.Rev*	Pre Application Form

**Unless otherwise stated, refer to latest revisions*

2.0 INTRODUCTION

This document provides a brief overview of the proposed development of a Ground Mounted Photovoltaic (GMPV) array on land within the China Fleet Country Club ownership, to help power the Country Clubs facilities.

3.0 GENERAL SITE USE DESCRIPTION

The proposed development is sited on currently unused land which is assumed to fall under the 'Agricultural' type category and has not been used for the 33 years of the China Fleet Clubs existence.

The unused land is approximately 10 acres (~4ha) and the proposal will take up approximately 2.5 acres (~1ha). As shown in the location plan (ZLC-CHINA-FLEET-PLANNING-Location_Plan.RevA1)

As shown in Figure 1, the land borders China fleets existing golf course to the East, Agricultural land to the South-East and North and the A38 Highway to the South, which is generally screened with trees / hedgerows as shown in Figure 2.



Figure 1. Surrounding land use



Figure 2. Extract from google street view of site location as viewed from the A38

4.0 PROPOSAL

The proposal is for a circa 600kW GMPV array (see site plan ZLC-CHINA-FLEET-PLANNING-Site_Plan.RevA1) to be constructed on disused land approximately 800m South-West of the China Fleet County club main complex and adjacent to the China Fleet Country Clubs existing golf course.

The project would involve the installation of approximately ~1080 Solar PV panels fixed in portrait orientation; two panels high as illustrated in Figure 3.



Figure 3. Example of ground mounting array as installed by ZLC Energy

The mountings beneath supporting the modules (illustrated in Figure 4) would be made of galvanised steel posts, approximately 60mm x 100mm in section, which would most likely be installed with the use of a reactive pile system that drives the supports directly into the earth. The structure is therefore capable of easy removal, allowing the development to be reversible.

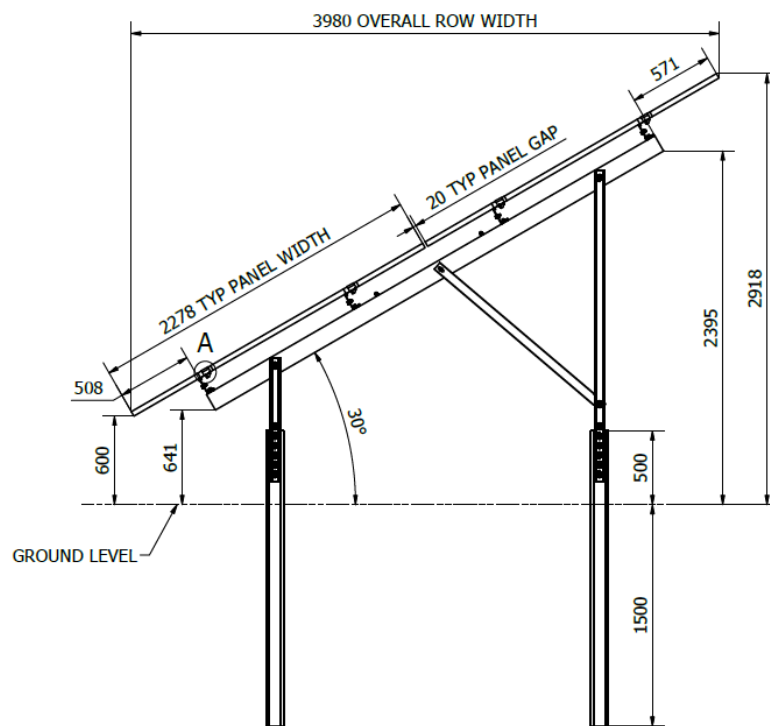


Figure 4. Section view of mounting system (DRAFT)

The proposed solar PV modules are a fixed arrangement, and would be virtually silent during operation, with no moving parts.

The proposal also includes construction of a substation and installation of a buried cable approximately 900m across the existing golf course (avoiding trees) to connect the Solar array into the main switch room, behind the meter, providing power to the China Fleet Country Club.

All works are proposed to take place within China Fleet Trusts land holding.

The PV array is proposed to be South facing to maximise energy generation and will be sited on the grassed area to minimise impacts to the surrounding landscape. Micro positioning of the site will be achieved through appraising various constraints (i.e. ecological, landscape and visual impacts) brought about through planning.

Additional works will include fencing, landscaping and ecological enhancements.