

Design and Access Statement

Proposed Photovoltaic Array, Land at
Liscombe Business Park, Leighton
Buzzard LU7 0GY

April 2023, Revision D

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Overview

This document has been prepared by Milton Studio Ltd on behalf of Starnes Plc, for submission to Central Bedfordshire Council in support of a proposed photovoltaic array on land at Liscombe Business Park, Leighton Buzzard LU7 0GY.

The proposed new photovoltaic array consists of 700 individual panels, which will generate circa 200,000 kWh of electricity per annum. This represents approximately 70% of the entire usage for Liscombe Business Park.

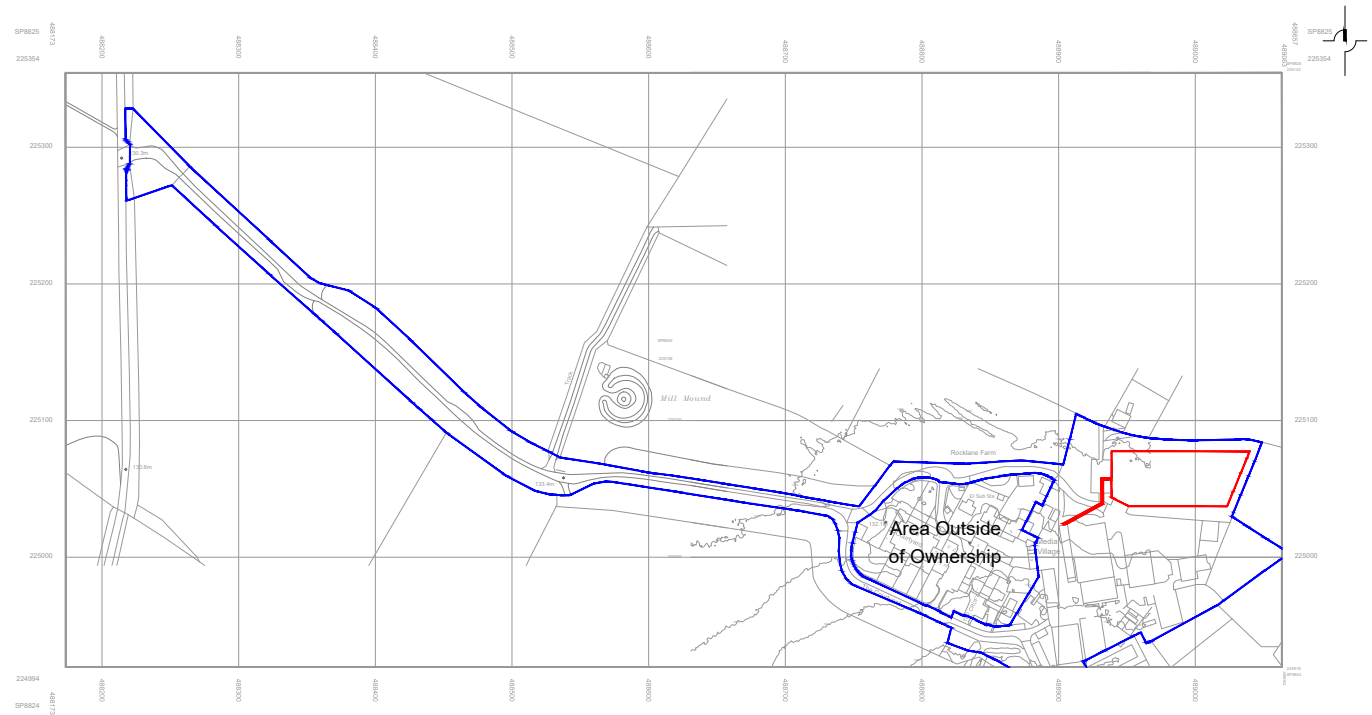
MILTON STUDIO
on behalf of Starnes Plc

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Site

Liscombe Business Park is situated in a rural setting, close to Leighton Buzzard, with good access to Milton Keynes and Aylesbury; currently providing local employment opportunities to these areas.

The proposed site is adjacent to Liscombe Business Park, situated immediately to the north-east and is currently a vacant field.



Site Location Plan

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Design

The photovoltaic array will be designed and installed by Geo Green Power, with high regard for the aesthetics and impact on surrounding areas. In order to meet the local requirements, Geo Green Power will be careful to ensure that this solar PV system is a non-permanent installation by using a pile driven mounting system, therefore eliminating the need to fix the mounting system into concrete.

The proposed photovoltaic array consists of a total of 700 Canadian Solar HiKu high power mono perc modules. A datasheet has been included separately as part of this application.



HiKu

HIGH POWER MONO PERC MODULE

355 W ~ 380 W

CS3L-355 | 360 | 365 | 370 | 375 | 380MS

MORE POWER

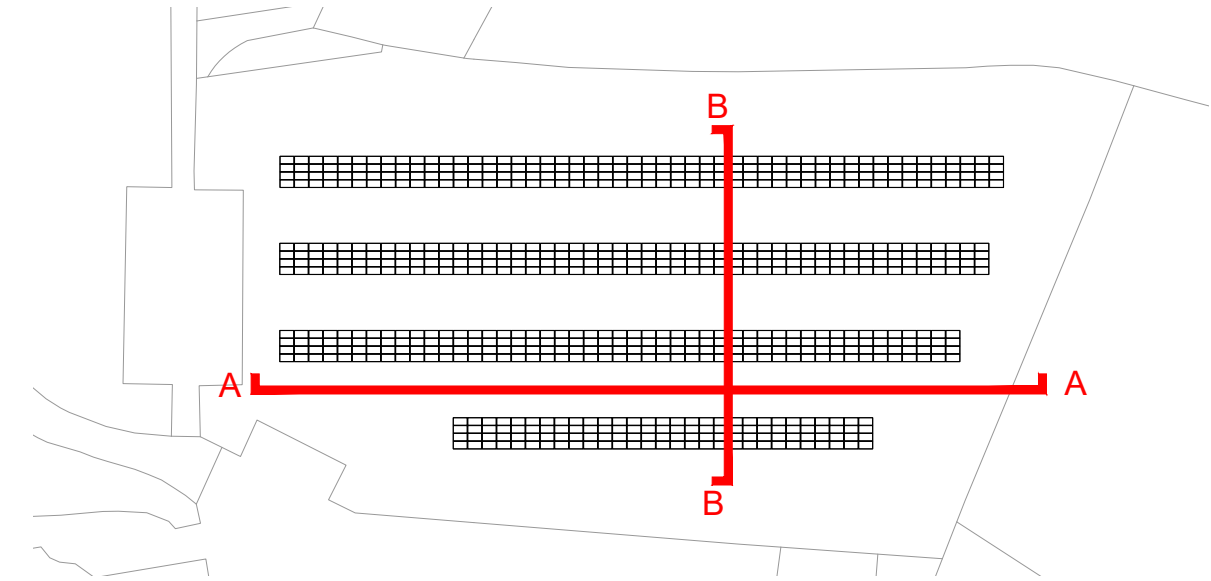


26 % higher power than conventional modules

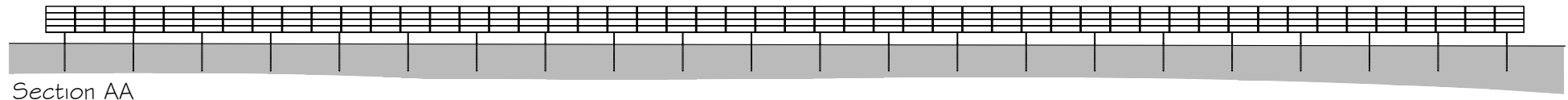
*Black frame product can be provided upon request.

These modules have an anti-reflective coating to ensure that there are no undesirable side effects related to light reflecting glare. At its highest point, the development will be approximately 2.4m from ground level; less than a single storey.

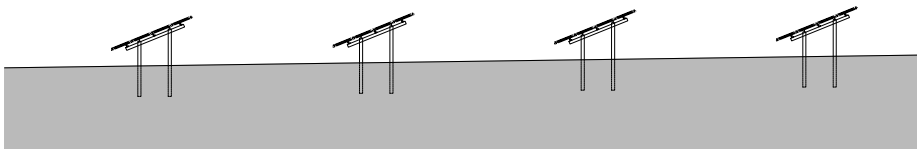
As such, the proposed development would be screened from view to the north by existing planting and only be visible from within Liscombe Business Park itself.



Section Diagram



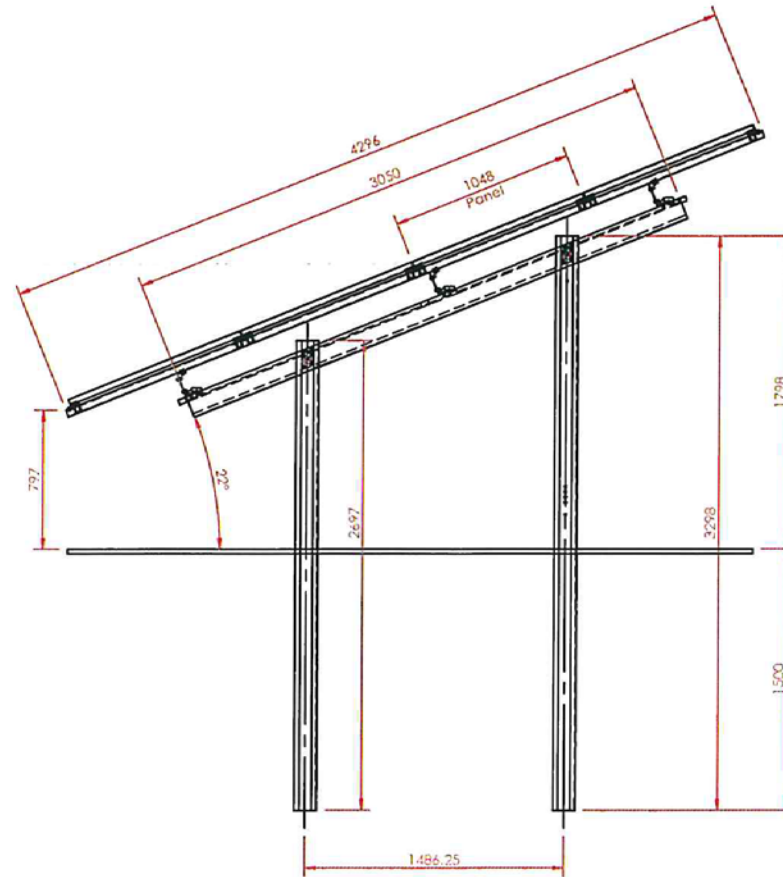
Section AA



Section BB

The proposed array is made up of 4 tables of panels, arranged in landscape format.

The inverters will be mounted in a pre-existing building and any cabling will run directly from the array to the existing supply and the land shall be returned to its original state immediately once the cables are laid.



Mounting frame dimensions

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Access

There is currently ample parking adjacent to the existing site, as part of Liscombe Business Park with direct access to the field.

Access to the proposed array for maintenance purposes would be from this location, although it is anticipated that this will be required relatively infrequently.

Liscombe Business Park already has sufficient road infrastructure to cope with any anticipated construction traffic and no special arrangements will need to be made during the construction period.



Aerial image of site and adjacent parking

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Sustainability Statement

The Government has a commitment to solar development and has identified this form of renewable energy production as having an important role to play in a balanced UK energy policy.

The Climate Change Act commits the UK government by law to reducing greenhouse gas emissions by at least 100% of 1990 levels (net zero) by 2050. Solar energy is therefore capable of providing a source of energy at a time when there is an overall climate crisis in terms of energy supply and security within the UK.

The purpose of this proposal is to provide clean energy to Liscombe Business Park and reduce the annual consumption of electricity derived from fossil fuels.

Assuming 0.371 kg of Co₂ is emitted per kWh of electricity produced using fossil fuels, this equates to a reduction of more than 74,000 tonnes per year.

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Conclusion

This document has been prepared in relation to a proposed photovoltaic array at land adjacent to Liscombe Business Park, Leighton Buzzard.

Through careful consideration of the approved scheme and evaluation of site's context, the revised proposals have been formed.

The proposal would have a minimum visual impact on the existing context, utilise existing road infrastructure and contribute to reducing the carbon footprint of the adjacent business park by circa. 74,000 tonnes a year, in line with government policy.

Accordingly, it can be concluded that the revised proposals would enhance the immediate context and surrounding area.

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