

DESIGN AND ACCESS STATEMENT

July 2023

TRIUMPH MOTORCYCLES
SOLAR PANEL INSTALLATION

TRIUMPH MOTORCYCLES
NORMANDY WAY, HINCKLEY, LE10 3BZ

STOAS
ARCHITECTS

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Prepared by STOAS Architects Ltd for and on behalf of the Applicant.

STOAS Architects Ltd

The Lodge
Coleshill Manor
South Drive
Birmingham
B46 1DL

T: 0121 747 1943

info@STOASarchitects.com
www.STOASarchitects.com

Registered in England no. 09489666

RIBA 

Chartered Practice

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1.0 Introduction

This Supporting Statement has been prepared by STOAS Architects on behalf of the Applicant and is submitted in support of a Full Planning Application to Hinckley and Bosworth Borough Council for the installation of a new solar array installation adjacent the northern boundary.

The Design and Access Statement has been prepared in accordance with the National Planning Policy Guidance and demonstrates the commitment of the Applicant and Designers to achieving Good Design whilst meeting the requirements of planning policy and legislation.

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Figure 1 – Site context

2.0 Site Location & Context

The application site is located within the wider ownership of the applicant, at their head quarters on Normandy Way, Hinckley. The wider site is bound to the East by the A47, to the South by the Ashby-De-La-Zouch after which is a trading estate formed of B2, B8 and E(g)(iii) properties, to the West by open arable farmland and to the North is an ongoing housing development.

The application site is the embankment along the Northern boundary, which has a relatively steep gradient of approximately 16 degrees back towards the applicant's premises from the boundary line. This natural gradient will be utilised by the installation to minimise the amount of supporting framework required, ensuring the most efficient south facing orientation and angle are achieved.

The site is currently formed of a managed soft landscape, made up of non-diverse turf. The proposed development comprises the installation of 1295 kWp Photovoltaic panels covering 6510 m².



Figure 2 – Site location plan

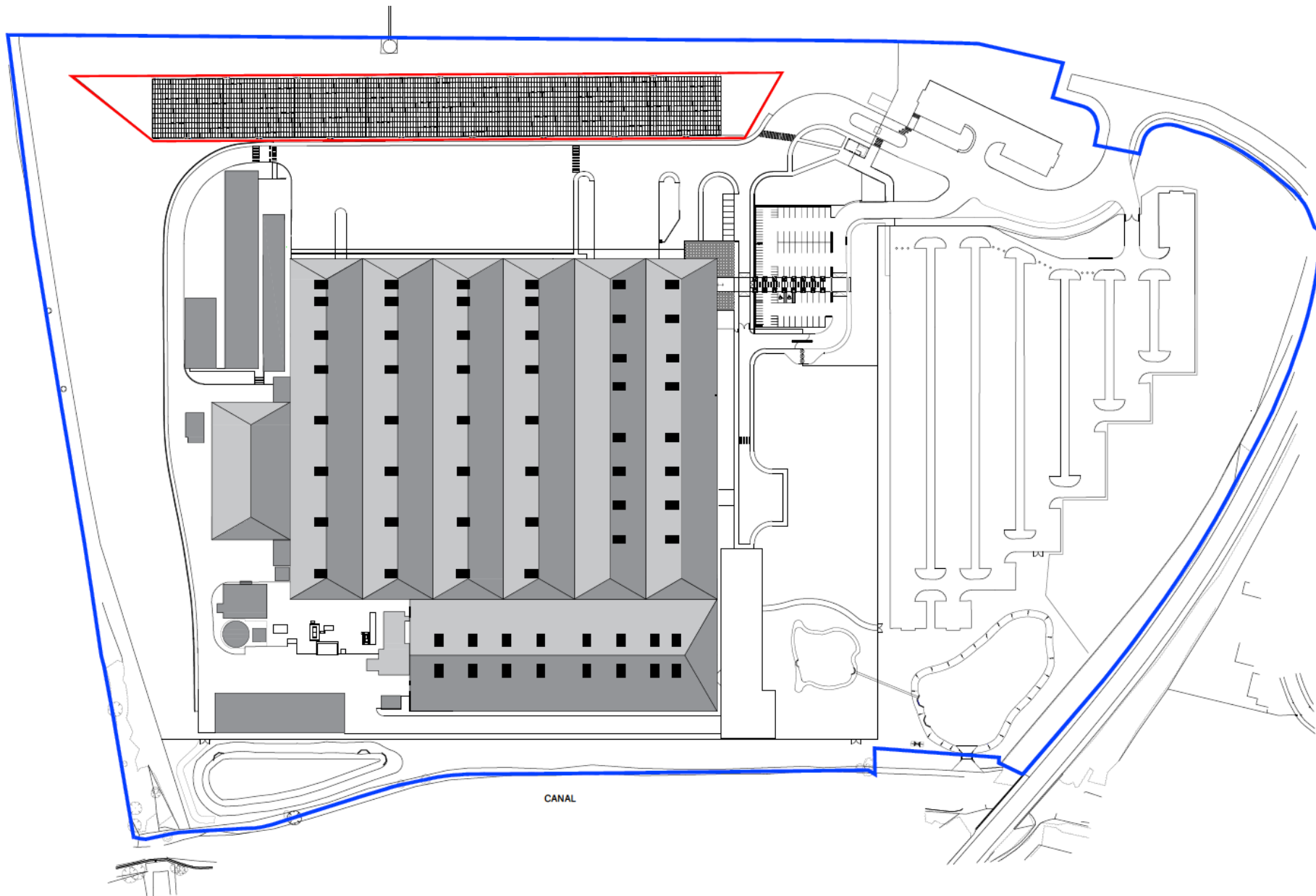


Figure 3 - Proposed Site Plan

3.0 Proposed Development

Allowing for all system losses, the proposed installation is expected to generate an estimated 1295 kWh per year, which will maximise the output from the available area. The equivalent energy generated from conventional fossil fuel sources would give rise to the emission of 363 kg CO₂ /year based on 0.28037 kgCO₂ /kWh. (Defra - Department for Environment Food and Rural Affairs formula)

This development is proposed to assist the UK in meeting its stated renewable energy objectives. It will also allow the applicant to transition their operational energy requirements to green alternatives.

Parking provisions, all traffic routes (including emergency services) and access and egress, will not be altered from the current arrangement and there will be no change the current hard or soft landscaping.

Design

The proposed installation will comprise of 2376 modules (545Wp each) solar photovoltaic panels.

The high performance photovoltaic solar panels used within the system are made from dark blue/black monocrystalline silicon, with an anodised aluminium frame. As a renewable energy source, this material will make a positive environmental contribution. All efforts have been made during manufacture to minimise the environmental impact of the product.

The solar panels are 2279mm x1134mm x35mm. The overall active area of the array will be 6510 m². The height of the entire array will be 700mm off the ground, to facilitate appropriate drainage, and allowing the panels to be angled to provide maximum efficiency. The introduction of the panels will not result in any nuisance issues to neighbouring properties due to the location of the array, and the relatively isolated position of the proposed site on the northern embankment. The solar panels will be mounted by use of Cold formed steel profiles mounting system. The electrical output from the solar panels will be cabled using a suitably

sized DC cable, which will then be connected to 3 inverters together with suitably sized DC and AC isolators.

Access

There will be no alterations made to any existing public or private highways, and no new public or private highways or connections are being proposed.

4.0 Conclusion

This document provides an overview of the considerations that have been made when designing and siting the proposed scheme, which will assist the applicant in shifting their operational energy demand requirements to a sustainable source via on site green renewables.