

SIX OAKS RENEWABLE ENERGY PARK

Environmental Statement Volume 3 - Figures

PREPARED ON BEHALF OF

Six Oaks Renewable Energy Park Limited

OCTOBER 2022



engena

SIX OAKS RENEWABLE ENERGY PARK - ENVIRONMENTAL STATEMENT VOLUME 3 - FIGURES

This Volume forms the third part of a four volume, five part Environmental Statement which describes the findings of the Environmental Impact Assessment (EIA) of the proposed Six Oaks Renewable Energy Park. The volumes of the complete document are:

Document	Title	Contents
Volume 1	Non-Technical Summary	Summarises the proposal and the key conclusions of the EIA for the non-technical reader
Volume 2A	Written Statement	Presents the full assessments of the EIA
Volume 2B	Appendices	Presents the appendices referred to in the Written Statement
Volume 3	Figures	Presents the figures referred to in the Written Statement
Volume 4	Visualisations	Presents the visualisations referred to in the Landscape and Visual Impact Assessment (LVIA) within the Written Statement

In addition to the Environmental Statement, the Applicant has submitted a Planning Statement which summarises the planning policy context of the proposal. A Design and Access Statement as well as a supporting Socio Economics Statement, Statement of Community Involvement, Transport Statement and environmental assessments undertaken outside of the EIA regulations also accompany the planning application.

A complete set of application documents can be viewed in person at East Cambridgeshire District Council, The Grange Car Park, Nutholt Lane, Ely CB7 4EE or South Cambridgeshire District Council, South Cambridgeshire Hall, Cambourne Business Park, Great Cambourne, Cambourne, Cambridge CB23 6EA or downloaded from the project website, as detailed in the box below.

Printed copies can be purchased at a cost of £500+VAT or digital versions, either as a download or on a USB Stick free of charge.

To order copies, please contact Engena Limited at:

The Old Stables, Bosmere Hall,
Creeping St Mary, IP6 8LL.

info@engena.co.uk

The Applicant may also be contacted at:

<https://ridgecleanenergy.com/sixoaks/>

FIGURE LIST

Introduction

Figure 1.1 - Site Location Plan

Figure 1.2 - Proposed Site Layout

Development Proposal

Figure 7.1 - Typical Solar Panel

Figure 7.2 - Typical Solar Panel and Frame Elevation

Figure 7.3 - Typical Access Track Detail

Figure 7.4 - Typical Transformer Detail

Figure 7.5 - Typical Customer Container Detail

Figure 7.6 - Typical Cable Trench Detail

Figure 7.7 - Typical Site Fencing Detail

Figure 7.8 - Typical CCTV Detail

Figure 7.9 - Proposed BESS and Substation Compound Plan

Figure 7.10 - Proposed BESS and Substation Compound Elevations

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Figure 7.12 - Proposed Substation Detail

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Ecology

Figure 9.1 - Survey Areas, County Wildlife Sites and Priority Habitats

Figure 9.2 - Phase 1 Habitat Map

Figure 9.3 - Biodiversity and Landscape Mitigation Plan

Landscape and Visual Impact Assessment

Figure 10.1 - Bare Earth Zone of Theoretical Visibility

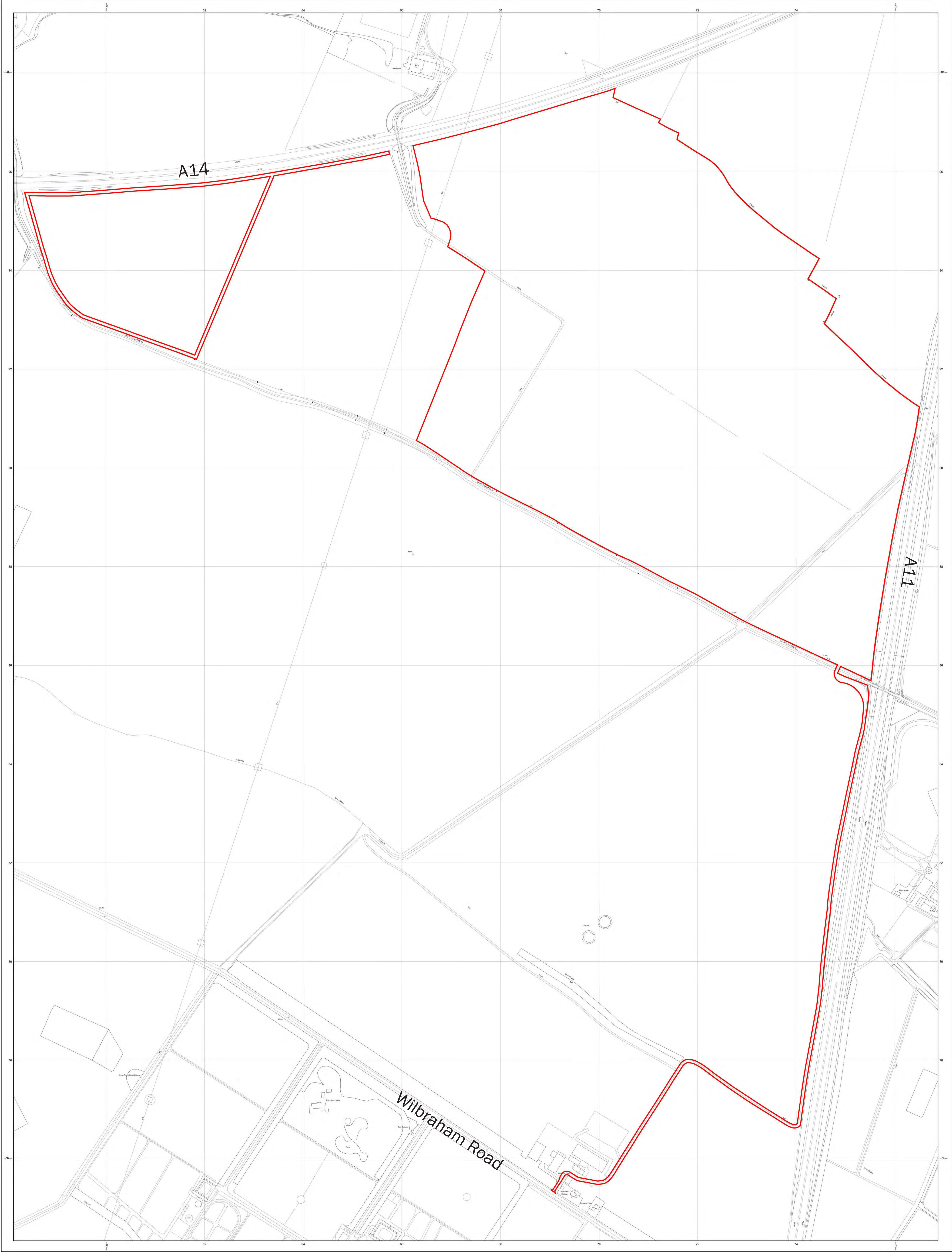
Figure 10.2 - Viewpoint Locations

Figure 10.3 - Cumulative Solar Farms Baseline

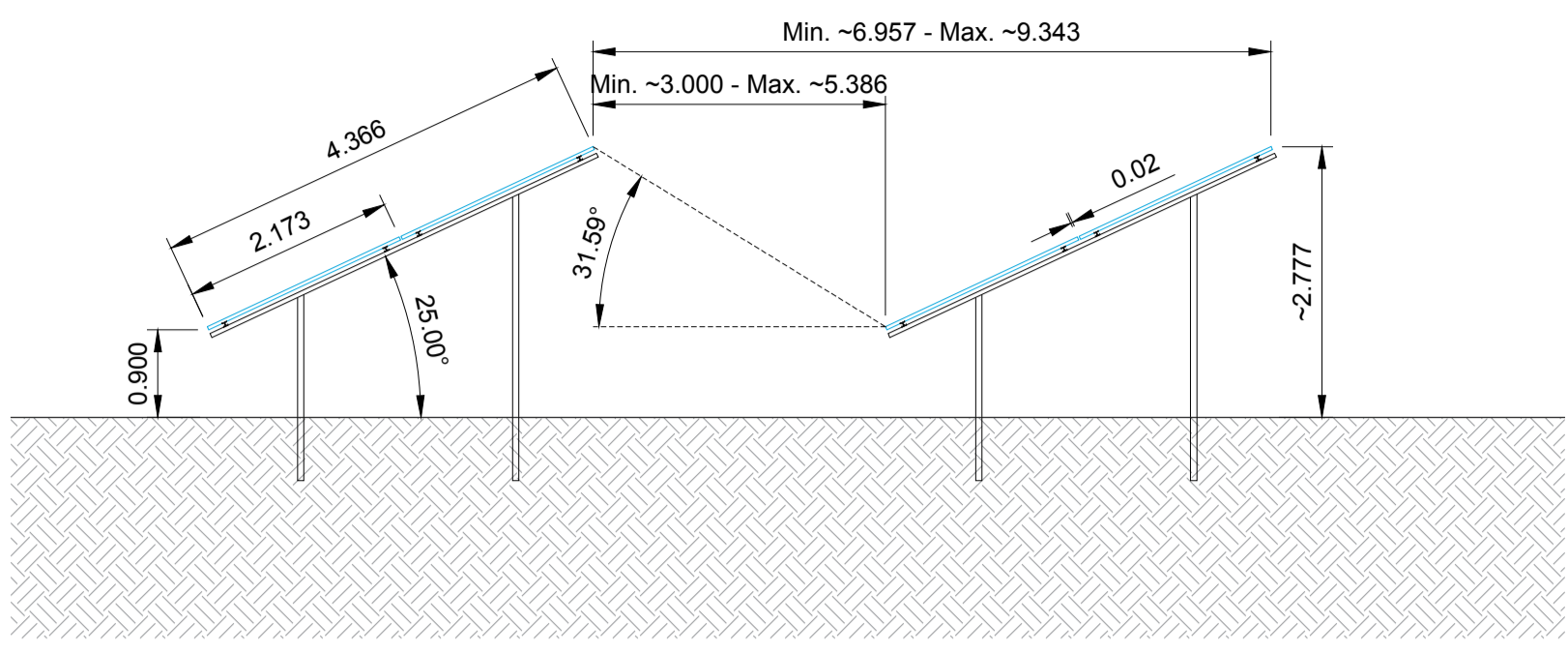
Figure 10.4 - Cumulative ZTV

Figure 10.5 - Cumulative Baseline - Sunnica Location

Figure 1.1 - Six Oaks Renewable Energy Park Location Plan



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- Notes:
- All dimensions to be confirmed on site prior to installation.
 - All dimensions are indicative only and in m unless otherwise specified.
 - Drawing based on satellite data: Imagery date: 22/04/2021

Reference drawings

Drawing name	Rev	Date
Six Oaks boundary and layout 07/07/2022	-	02/08/22
EN02N101-100	A	21/03/22

- Legend:
- Site boundary
 - Perimeter fence (~3 628 m)
 - Maintenance track
 - External track
 - Cadent gas pipe
 - National grid gas pipe
 - Customer substation & Battery storage area
 - Compound area
 - Road restriction area
 - Customer cabin
 - DNO
 - 20t. Customer Substation
 - 20t. Power Station (6x 6 000 kVA)
 - Table of 2P26 modules (2 185 pcs.)
 - Table of 2P13 modules (232 pcs.)
 - Gate

System description:

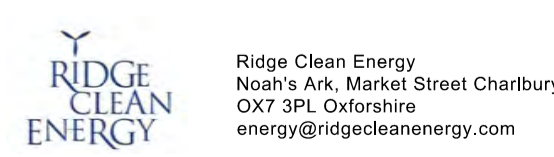
DC Power kWp:	70594.68
AC Power kVA:	49880 (@Pmax) / 46400 (@Pnom)
No. of modules:	119652
Module type:	Canadian Solar CS7L-590MB
Dimensions:	2173x1305x35
Substructure type:	2 modules in portrait
Modules per string:	26
Number of strings:	4 562
Tilt angle:	25°
Shading angle:	-31.59°
Azimuth from South:	0°
Inverter model:	Huawei SUN2000-215KTL-H1
Inverter power, kVA:	215 (@Pmax) / 200 (@Pnom)
No. of inverters:	232
DC / AC ratio:	1.52 (@Pnom)



Revisions:

Rev	Date	Comments	Drawn	Approve
0	04/08/22	First issue	MC	UZ
0	10/08/22	Fences added over compound area	UZ	UZ

Project: Six Oaks
 Location: Wilbraham Road, Six Mile Bottom, New Market, CB8 0UW, UK
 52.209753°, 0.297069°
 Title: Figure 1.2 - Layout
 Drawn: Detra Solar / MC Checked: RB
 Scale: 1:2500@A1 Date: 04/08/22
 Drawing No: RCE1002-100 Rev: A



Do not scale from this drawing. Site verify all dimensions prior to construction. Report all discrepancies to the drawing originator immediately. This drawing is to be read in conjunction with all relevant documents and drawings.

