



HELIOS RENEWABLE
ENERGY
PROJECT

Preliminary Environmental Information Report

Volume 2: Main Text and Figures

Preface and Contents

October 2023



Helios Renewable Energy Project
Preliminary Environmental Information Report
Planning Inspectorate Reference: EN010140

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Prepared on behalf of Enso Green Holdings D Limited

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PREFACE

This Preliminary Environmental Information Report ('PEIR') has been prepared in relation to an application to be made to the Secretary of State for the Department for Energy Security and Net Zero under Section 37 of the Planning Act 2008 (as amended), seeking a Development Consent Order for the Helios Renewable Energy Project (the 'Proposed Development').

The Proposed Development is located within the administrative areas of North Yorkshire Council ('NYC').

The PEIR forms part of a suite of documents supporting statutory pre-application consultation and publicity for the Proposed Development under Sections 42, 47 and 48 of the PA2008. The statutory consultation runs from 9:00am on 26th October 2023 until 11:59:59pm on 7th December 2023.

A full set of consultation documents can also be provided on a USB drive for £15, or as a hard copy for £1000, on written request to the Applicant via post or email at the details below (reasonable postage charges may also apply).

Electronic copies of the documents referred to above will also be available to download free of charge during the statutory consultation period at the Applicant's website: <https://www.helios-renewable-energy-project.co.uk/project-documents/>

Please send any responses, requests for copies of documents or queries to:

- Email: info@helios-renewable-energy-project.co.uk
- Online: <https://www.helios-renewable-energy-project.co.uk/get-in-touch/>
- Post: FREEPOST TC CONSULTATION

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GLOSSARY

Term	Definition
<i>Access Tracks</i>	The tracks within the Site constructed to provide primary access around the Site.
<i>Applicant</i>	Enso Green Holdings D Limited
<i>DCO Application</i>	The proposed application for a Development Consent Order (DCO) to be submitted by the Applicant to provide the Proposed Development on the Site.
<i>Battery Energy Storage System (BESS)</i>	A BESS is a type of energy storage system which uses batteries to store electrical energy. A BESS includes battery containers, control room, Inverter-transformers and a switchroom.
<i>Best and Most Versatile Agricultural Land</i>	Land in grades 1, 2 and 3a of the Agricultural Land Classification.
<i>Construction Compound</i>	Construction compounds are used during the construction and decommissioning phases to allow for storage, parking, turning and welfare facilities within the Site.
<i>Construction Environmental Management Plan (CEMP)</i>	A specific plan developed to ensure that appropriate environmental management practices are followed during the construction phase of a Proposed Development.
<i>Development Consent Order (DCO)</i>	The order required for consent of a Nationally Significant Infrastructure Project (NSIP) under the Planning Act 2008.
<i>EIA Regulations</i>	Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (as amended).
<i>Glint</i>	A momentary flash of bright typically received by moving receptors or from moving reflectors.
<i>Glare</i>	A continuous source of bright light typically received by static receptors or from large reflective surfaces.
<i>Higher Rated Voltage Cables</i>	33kV cables between field stations and the on-Site substation.

Term	Definition
<i>Inverter Stations/ Field Stations</i>	Inverters convert the direct current (DC) electricity collected by the PV Modules into alternating current (AC), which allows the electricity generated to be exported to the National Grid.
<i>Low Voltage Distribution Cables</i>	Transmit electricity between the PV modules and the inverters.
<i>Mounting Structure</i>	The structure that is fixed to the ground and onto which the PV modules are attached.
<i>Proposed Development</i>	The Proposed Development is a 'Schedule 2' development under the EIA Regulations for a renewable energy generating project.
<i>PV Array</i>	A PV Array is a distinct grouping of PV Tables. The PV Arrays are arranged within the Solar PV Site.
<i>PV Module</i>	A panel comprising a grouping of photovoltaic cells connected to each other and set within a single physical frame. The PV Panel is attached to a Mounting Structure.
<i>PV Strings</i>	A PV string is a group of PV modules that are connected to one another.
<i>PV Tables</i>	PV modules placed on mounting structures arranged in rows.
<i>Single Axis Tracker (SAT) System</i>	PV Modules that are mounted to mounting structures that allow the PV Table to rotate and track the movement of the sun.
<i>Site</i>	The land required temporarily and/or permanently for the construction, operation and maintenance, and decommissioning of the Proposed Development on land located to the south-west of the village of Camblesforth and to the north of the village of Hirst Courtney in North Yorkshire.
<i>Solar Farm</i>	Electricity generating station comprising of solar PV modules connected to the National Grid via a substation.
<i>String Inverters</i>	String Inverters are located throughout the solar PV site, mounted on the mounting structures underneath the PV Modules.
<i>Switchgear</i>	Switchgear is the combination of electrical disconnect switches, fuses or circuit breakers used to control, protect, and isolate electrical equipment.
<i>Substation</i>	The on-Site Substation will comprise an earthing transformer, surge

Term	Definition
	arresters, earth switch, circuit breaker, 33kV intake room and generator transformers.
<i>Transformers</i>	Transformers step up the voltage of the electricity generated by PV modules across the Site before it reaches the on-Site substation.