



Mallard Pass

Solar Farm

Mallard Pass Solar Farm

Environmental Statement Volume 1 Chapter 0: Glossary

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Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations
2009 - Reg 5 (2) (a)

0.0 Glossary

Glossary of Terms	
Term	Description
Access Tracks	The tracks within the Order limits constructed to provide access around the Proposed Development.
Ancillary Buildings	The office, warehouse and plant buildings which may be located within the Solar PV Site.
Ancillary Infrastructure	Works to include means of enclosure and boundary treatment, security and monitoring infrastructure, landscaping and biodiversity measures including planting, drainage and irrigation works, signage, earthworks, and access including permissive paths.
Applicant	Mallard Pass Solar Farm Limited
Central Container Inverters	Inverters, switchgear and transformers are located throughout the Solar PV Site and would be housed together in containers.
Central Transformers	Transformers are located within the container that houses the Inverters and switchgear.
Cumulative effects	Effects upon the environment that result from the incremental impact of an action when added to other past, present or reasonably foreseeable actions. Each impact by itself may not be significant but can become a significant effect when combined with other impacts.
Construction Phase	The process of building the Proposed Development, including the Onsite Substation, Highway Works, and Grid Connection Route, assumed to be commencing no earlier than 2026, and for a period of 24 months.

Glossary of Terms	
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DCO Application	The application for a Development Consent Order (DCO) to be submitted by the Applicant for the Proposed Development.
Decommissioning Phase	The process of removing all solar PV array infrastructure including modules, mounting structures, cabling, inverters and transformers, for recycling or disposal in accordance with good practice and market conditions at that time.
Development Consent Order (DCO)	The order required for consent of a Nationally Significant Infrastructure Project (NSIP) under the Planning Act 2008 (PA 2008).
Displacement	Displacement measures the extent to which benefits of a development are offset by reductions in output or employment elsewhere
EIA Regulations	Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (as amended)
Environmental Impact Assessment (EIA)	A process by which information about environmental effects of a proposed development is collected, assessed and used to inform decision making.
Fixed South Facing (FSF) PV Arrays	PV Tables that are mounted to fixed Mounting Structures that face south.
Green Infrastructure	A network of multi-functional green space and other green features, urban and rural, which can deliver quality of life and environmental benefits for communities
Grid Connection Cables	The buried 400kV cables connecting the Onsite Substation to the National Grid Ryhall Substation at Uffington Lane. Located within the Grid Connection Corridor.

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Grid Connection Corridor	The proposed corridor for the Grid Connection Cables between the Onsite Substation and the National Grid Ryhall Substation.
Highway Works Site	<p>The areas that are being proposed for improvement works to facilitate access to the Solar PV Site.</p> <p>Works to facilitate access to the Proposed Development, including:</p> <ul style="list-style-type: none"> - Creation of accesses from the public highway; - Creation of visibility splays; - Works to widen and surface the public highway (including the creation of passing places); - Electrical cabling works within the highway; and - Any temporary works to facilitate construction access (including Abnormal Indivisible Loads (AIL)).
Inverters	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.
Low Voltage Distribution Cables/Cabling	33 kV cables, which transmit electricity from the Solar Station to the Onsite Substation, located within the Order limits.
Mitigation	Measures including any process, activity or design to avoid, reduce, or remedy for negative environmental impacts or effects of a development.

Glossary of Terms	
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Mitigation and Enhancement Areas	The area within the Order limits that is being proposed for mitigation and enhancement.
Mounting Structure	A frame or rack designed to support the Solar PV Modules, and which will provide for either a fixed south facing orientation, or a single access tracking orientation, and will be mounted on poles driven into the ground or fixed to a concrete foundation.
National Grid Ryhall Substation	The existing National Grid 400kV Substation known as Ryhall substation at Uffington Lane, owned and operated by National Grid Electricity Transmission.
Nationally Significant Infrastructure Projects (NSIPs)	Nationally Significant Infrastructure Projects (NSIPs) are large scale developments which require development consent pursuant to the PA 2008.
Onsite Substation	The Onsite Substation comprising electrical infrastructure such as the transformers, switchgear and metering equipment required to facilitate the export of electricity from the Proposed Development to the National Grid. The Onsite Substation will convert the electricity to 400kV for onward transmission to the Ryhall Substation via the Grid Connection Cables.
Operational Phase	The period within which the Proposed Development is operational, following the Construction Phase and following connection and first export to the National Grid, no earlier than 2028.
Order limits	The land required temporarily and/or permanently for the construction, operation and maintenance of the Proposed Development at

Glossary of Terms	
Term	Description
	Mallard Pass, Essendine as shown on the Works Plans.
Permissive Paths	New recreational informal paths signed as permissive that the landowner allows the public to use for the life of the Proposed Development.
Primary Construction Compound	A temporary laydown area comprising an area of hard standing which would include areas for offices, car parking, storage for materials and equipment.
Proposed Development	<p>A Nationally Significant Infrastructure Project (NSIP) for the installation of solar photovoltaic (PV) Modules and associated infrastructure which would allow for the generation and export of electricity at land at Mallard Pass, Essendine.</p> <p>The details of the Proposed Development are described in Chapter 5 of this Environmental Statement and Schedule 1 of the draft DCO submitted with the Application.</p> <p>The Proposed Development is known as 'Mallard Pass Solar Farm'.</p>
PV Array	A PV Array is a distinct grouping of PV Tables. The PV Arrays are arranged within the Solar PV Site. Sometimes known as 'Solar PV Arrays' or 'Solar Arrays' throughout the ES and supporting documents.
PV Module	A solar photovoltaic panel or module designed to convert solar irradiance to electrical energy. The PV panel is attached to a Mounting Structure and is referred to as a PV Module.

Glossary of Terms	
Term	Description
PV Tables	PV Modules mounted onto the Mounting Structure, forming tables, which are then set out in rows.
PV String	A row of PV Modules mounted onto the Mounted Structure that are connected to one another to form a PV string which is either connected to a String Inverter or a Central Container Inverter
Receptor	A component of the natural or man-made environment that is affected by an impact, including people.
Secondary Construction Compounds	Temporary laydown areas comprising areas of hardstanding, car parking, areas to store materials and equipment, waste skips, security infrastructure including fencing, lighting and cameras.
Single Axis Tracker (SAT) Arrays	PV Modules that are mounted to Mounting Structures that allow the PV Table to rotate and track the movement of the sun.
Solar Farm	Electricity generating station comprising of PV Modules connected to the National Grid via a substation.
Solar PV Site	The area within the Order limits that is being proposed for PV Arrays, Solar Stations and the Onsite Substation.
Solar Station	A Solar Station means a station comprising centralised inverters, transformers and switch gear with each component grouped together to form each solar station.
String Inverters	Inverters located throughout the Solar PV Site, mounted on the Mounting Structures underneath the PV Modules to form a string.

Glossary of Terms	
Term	Description
String Transformers	Transformers located within the container are distributed throughout the Solar PV Site, forming a string.
Study Area	The area in which a particular assessment or survey targets. The study area will vary depending on the nature of the technical assessment. Where relevant, these are defined within the relevant technical chapter of the ES.
Switchgears	Switchgears are the combination of electrical disconnect switches, fuses or circuit breakers used to control, protect and isolate electrical equipment
Temporary Decommissioning Compounds	Temporary laydown areas comprising of hard standing which would include areas for offices, car parking, storage for materials and equipment during the decommissioning phase.
Transformers	A structure serving to transform electricity to a higher voltage which will either be a string transformer or a central container transformer.
Works Plans	The plans submitted with the Application known as the Works Plans and which delineate the Order limits for the Proposed Development.
Written Scheme of Investigation	A Written Scheme of Investigation outlines known and potential archaeological features and deposits or built heritage elements on a site and suggests a structure for exploring them using the latest, most appropriate and cost effective archaeological techniques.
Zone of Influence	The area for the assessment of combined effects. Zones of Influence (Zols) are variable depending on the environmental factor being discussed.

Glossary of Terms	
Term	Description
Zone of Theoretical Visibility	A map, usually digitally produced, showing areas of land within which the Proposed Development is theoretically visible.

Acronyms

Acronyms	
AADT	Annual Average Daily Total
AAR	Average Annual Rainfall
AC	Alternating Current
AGL	Above Ground Level
AIA	Arboricultural Impact Assessment
AIL	Abnormal Intervisible Loads
ALC	Agricultural Land Classification
AMS	Arboricultural Method Statement
AOD	Above Ordnance Datum
APFP Regulations	Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (as amended)
AQMA	Air Quality Management Area
AQO	Air Quality Objective
ATC	Automatic Traffic Counts
BEIS	Department for Business, Energy and Industrial Strategy
BGL	Below Ground Level
BGS	British Geology Survey

Acronyms	
BMV	Best and Most Versatile land – land within grades 1, 2 and 3a of the agricultural land classification.
BS	British Standard
BSI	British Standards Institute
CCIA	Climate Change Impact Assessment
CCTV	Closed Circuit Television
CDM	Construction Design and Management
CEMP	Construction Environmental Management Plan
CIEEM	Chartered Institute of Ecology and Environmental Management
CIRIA	Construction Industry Research and Information Association
CO ₂	Carbon Dioxide
COMAH	Control of Major Accidents Hazard
CRTN	Calculation of Road Traffic Noise
CTMP	Construction Traffic Management Plan
CWS	County Wildlife Site
DAS	Design and Access Statement
dB	Decibels
DC	Direct Current
DCO	Development Consent Order
DEFRA	Department for Environment, Food and Rural Affairs
DEMP	Decommissioning Environmental Management Plan

Acronyms	
DfT	Department for Transport
DLUHC	Department for Levelling Up, Housing and Communities
DMRB	Design Manual for Roads and Bridges
DTMP	Decommissioning Traffic Management Plan
DUKES	Digest of UK Energy Statistics
EA	Environment Agency
EC	European Commission
ECOW	Environmental Clerk of Works
EIA	Environmental Impact Assessment
EMF	Electromagnetic Frequency
EPUK	Environmental Protection UK
ES	Environmental Statement
FRA	Flood Risk Assessment
FTE	Full Time Employment
GEART	Guidelines for the Environmental Assessment of Road Traffic
GHG	Greenhouse Gas
GI	Green Infrastructure
GIS	Geographic Information System
GPP	Guidance for Pollution Prevention
GVA	Gross Value Added
GW	Giga Watt
GWD	Groundwater Directive
Ha	Hectare

Acronyms	
HRA	Habitats Regulations Assessment
HDD	Horizontal Directional Drilling
HDV	Heavy Duty Vehicle (>3.5 tonnes)
HE	Homes England
HGV	Heavy Goods Vehicle
IAQM	Institute of Air Quality Management
IDB	Internal Drainage Board
IEMA	Institute of Environmental Management and Assessment
IPCC	Intergovernmental Panel on Climate Change
IR	Infra-Red
ISO	International Organisation for Standardisation
JNCC	Joint Nature Conservation Committee
Km	Kilometres
kV	Kilovolts
LAQM	Local Air Quality Management
LCA	Landscape Character Area
LCC	Lincolnshire County Council
LDV	Light Duty Vehicles (<3.5 tonnes)
LEMP	Landscape and Ecology Management Plan
LGV	Light Goods Vehicle
LLFA	Lead Local Flood Authority
LRN	Local Road Network

Acronyms	
LVIA	Landscape and Visual Impact Assessment
LWS	Local Wildlife Site
MW	Megawatts
NIC	National Infrastructure Commission
NMU	Non-Motorised Users
NPPF	National Planning Policy Framework
NPPG	National Planning Practice Guidance
NPS	National Policy Statement
NRFA	National River Flow Archive
NRMM	Non-Road Mobile Machinery
NSIP	Nationally Significant Infrastructure Project
NTS	Non-Technical Summary
NVQ	National Vocational Qualification
oCEMP	Outline Construction Environmental Management Plan
oCTMP	Outline Construction Traffic Management Plan
oDEMP	Outline Decommissioning Environmental Management Plan
oEMMP	Outline Excavated Materials Management Plan
oLEMP	Outline Landscape Ecology Management Plan
ONS	Office for National Statistics

Acronyms	
oOEMP	Outline Operational Environmental Management Plan
oPROWMP	Outline Public Rights of Way Management Plan
OS	Ordnance Survey
oSMP	Outline Soil Management Plan
oSCEP	Outline Skills, Supply Chain and Employment Plan
oTP	Outline Travel Plan
PA 2008	Planning Act 2008 (as amended)
PEIR	Preliminary Environmental Information Report
PID	Passive Infra-red Detector
PINS	Planning Inspectorate
PPG	Pollution Prevention Guidelines
PPP	Pollution Protection Plan
PPV	Peak Particle Velocity
PRoW	Public Rights of Way
PWS	Private Water Supply
RCC	Rutland County Council
SEPA	Scottish Environment Protection Agency
SKDC	South Kesteven District Council
SoCC	Statement of Community Consultation
SoCG	Statement of Common Ground
SoP	Standard of Protection
SoS	Secretary of State

Acronyms	
SPA	Special Protection Area
SPZ	Source Protection Zone
SRN	Strategic Road Network
SSSI	Site of Special Scientific Interest
SuDS	Sustainable Drainage System
TAG	Transport Analysis Guidance
TP	Travel Plan
TPP	Tree Protection Plan
UKCP	UK Climate Projections
WCMP	Water and Construction Management Plan
WFD	Water Framework Directive
ZTV	Zone of Theoretical Visibility

List of Figures	
Figure 1.1	Order limits
Figure 1.2	Administrative Boundaries
Figure 2.1	Cumulative Developments Shortlisted for Cumulative Effects Assessment (100k scale)
Figure 2.2	Cumulative Developments Shortlisted for Cumulative Effects Assessment (450k scale)
Figure 3.1	Extents of the Order limits, Solar PV Site, Mitigation and Enhancement Areas and Highway Works
Figure 3.2	Field Numbering System
Figure 4.1	Stage 1 Concept Masterplan
Figure 4.2	Stage 2 Concept Masterplan
Figure 4.3	Concept Masterplan
Figure 5.1(a)	Fixed South Facing String Inverter Illustrative Development Layout
Figure 5.1(b)	Single Axis Tracker String Inverter Illustrative Development Layout
Figure 5.1(c)	Fixed South Facing Central Inverter Illustrative Development Layout
Figure 5.1(d)	Single Axis Tracker Central Inverter Illustrative Development Layout
Figure 5.2	Illustrative Elevations of Fixed South Facing and Single Axis Tracker Arrays
Figure 5.3a	Illustrative Elevations of Container Solar Station

List of Figures	
Figure 5.3b	Illustrative Elevations of a Cabinet Solar Station
Figure 5.3c	Illustrative Elevations of Container Solar Station for String Inverters
Figure 5.4	Illustrative Elevations of String Inverter
Figure 5.5	Illustrative Onsite Substation Layout
Figure 5.6	Illustrative Cable Trench Section
Figure 5.7	Indicative Cable Crossing Locations
Figure 5.8	Cable Crossing Options of the East Coast Mainline Railway
Figure 5.9	Illustrative Fencing and Access Gate Elevation
Figure 5.10	Solar PV Site Access Locations
Figure 5.11	Illustrative Access Track Cross Section
Figure 5.12	Locations of Primary and Secondary Temporary Construction Compounds
Figure 6.1	Topography
Figure 6.2	Non Statutory Landscape Sites
Figure 6.3	Natural England National Landscape Character Area Profiles
Figure 6.4	Local Landscape Character Areas
Figure 6.5	Access and Recreation
Figure 6.6	Zone of Theoretical Visibility (ZTV) Study, Representative Viewpoints and Illustrative Viewpoint
Figure 6.7	Visual Receptor Groups (VRG) and Zone of Visual Influence, Representative Viewpoints and Illustrative Viewpoints

List of Figures	
Figure 6.8.1 – 6.8.20	Representative Viewpoints 1 – 20
Figure 6.9A – 6.9.H	Illustrative Viewpoints A - H
Figure 6.10.A – 6.9.E	Photomontages A - E
Figure 6.11	Green Infrastructure Strategy Plan
Figure 6.12	Cumulative Schemes and ZVI Plan
Figure 7.1	Statutory and Non-Statutory Nature Conservation Designations Plan (Maps 1-2)
Figure 7.2	Ponds within 500m of the Order limits
Figure 7.3	Phase 1 Habitats Plan (Maps 1-3)
Figure 7.4	Trees with Bat Roost Suitability (Maps 1-2)
Figure 7.5	Water Vole Evidence
Figure 7.6	Breeding Bird Indicative Territories (Maps 1-6)
Figure 7.7	Confidential – Locations of Badger Setts
Figure 8.1	Statutory and Non-Statutory Historic Environment Designations Plan
Figure 9.1	Construction Access Routes and Vehicular Restrictions
Figure 9.	Link Overview
Figure 10.1	Noise Monitoring Locations
Figure 11.1	Water Resources and Ground Conditions
Figure 11.2	Illustration of Solid Geology
Figure 11.3	Illustration of Superficial Geology
Figure 11.4	Flood Risk Map
Figure 11.5	Private Water Supplies

List of Figures	
Figure 11.6	Water Bodies in a River Basin Management Plan
Figure 12.1	Agricultural Land Classification Results

List of Appendices	
Appendix 1.1	Statement of Competence
Appendix 2.1	EIA Scoping Opinion Request
Appendix 2.2	EIA Scoping Opinion
Appendix 2.3	EIA Scoping Opinion Response Matrix
Appendix 2.4	Cumulative Long List
Appendix 5.1	Proposed Development Parameters
Appendix 6.1	Legislation and Planning Policy Relevant to the Landscape and Visual Impact Assessment (LVIA)
Appendix 6.2	Landscape and Visual Impact Assessment Methodology
Appendix 6.3	Consultation Record and responses Relevant to ES Chapter 6: Landscape and Visual
Appendix 6.4	Residential Visual Amenity Assessment (RVAA)
Appendix 6.5	Amenity and Recreation
Appendix 7.1	Ecological and Biodiversity Policy and Legislation
Appendix 7.2	Ecological and Biodiversity Assessment Methodology

List of Appendices	
Appendix 7.3	Consultation Record and Responses Relevant to Ecology and Biodiversity
Appendix 7.4	Ecological Baseline Report
Appendix 7.5	Shadow Habitat Regulations Assessment (HRA) Report
Appendix 8.1	Legislation and Planning Policy Relevant to Cultural Heritage
Appendix 8.2	Cultural Heritage Assessment Methodology
Appendix 8.3	Consultation Record and Responses Relevant to Cultural Heritage
Appendix 8.4	Cultural Heritage Impact Assessment
Appendix 9.1	Legislation and Planning Policy Relevant to Transport and Access
Appendix 9.2	Transport and Access Assessment Methodology
Appendix 9.3	Consultation Record and Responses Relevant to Transport and Access
Appendix 9.4	Transport Assessment
Appendix 9.5	Baseline and Future Baseline Traffic Flows
Appendix 9.6	Construction Traffic Impact Assessment
Appendix 10.1	Legislation and Planning Policy Relevant to Noise and Vibration
Appendix 10.2	Noise and Vibration Assessment Methodology
Appendix 10.3	Consultation Record and Responses Relevant to Noise and Vibration
Appendix 10.4	Baseline Noise Survey

List of Appendices	
Appendix 10.5	Noise Modelling
Appendix 11.1	Legislation and Planning Policy Relevant to Water Resources and Ground Conditions
Appendix 11.2	Water Resources and Ground Conditions Assessment Methodology
Appendix 11.3	Consultation Record and Responses Relevant to Water Resources and Ground Conditions
Appendix 11.4	Baseline Data
Appendix 11.5	Flood Risk Assessment
Appendix 11.6	Outline Surface Water Drainage Strategy
Appendix 12.1	Planning Policy Relevant to Land Use and Soils
Appendix 12.2	Land Use and Soils Assessment Methodology
Appendix 12.3	Consultation Record and Responses Relevant to Land Use and Soils
Appendix 12.4	Agricultural Land Classification
Appendix 12.5	Agricultural Land Classification Measurements Explained
Appendix 12.6	Farm Interview Notes
Appendix 12.7	British Society of Soil Science “Soil Carbon” (2021)
Appendix 12.8	Construction Methodology (in so far as it affects soils)
Appendix 13.1	Legislation and Planning Policy Relevant to Climate Change

List of Appendices	
Appendix 13.2	Climate Change Assessment Methodology
Appendix 13.3	Consultation Record and Responses Relevant to Climate Change
Appendix 14.1	Socio-Economics Policy Context
Appendix 14.2	Socio-Economics Assessment Methodology
Appendix 14.3	Consultation Record and Responses Relevant to Socio-Economics
Appendix 15.1	Air Quality Passive diffusion Tube Monitoring
Appendix 15.2	Arboricultural Impact Assessment
Appendix 15.3	Solar Photovoltaic Glint and Glare Study
Appendix 17.1	Mitigation Schedule

