



Meridian Solar Farm

EN010169

Volume 6

Environmental Statement

6.1 ES Glossary and
Abbreviations

APFP Regulation 5(2)(a)

Infrastructure Planning (Applications:
Prescribed Forms and Procedure)
Regulations 2009

March 2026

Glossary and Abbreviations

Glossary of Terms

Glossary of Terms Term	Definition
“A” Weighting (dB(A))	The human ear does not respond uniformly across the audible frequency range. The “A” weighting is used to simulate the frequency response of the ear of a person.
Abnormal Indivisible Load (AIL)	A vehicle that has a weight of more than 44,000kg, an axle load of more than 10,000kg for a single non-driving axle and 11,500kg for a single driving axle, a width of more than 2.9 metres or a rigid length of more than 18.65 metres.
Affected Road Network (ARN)	The set of road links assessed for traffic and air-quality effects during construction/operation.
Agricultural Land Classification (ALC)	The standard method for classifying agricultural land according to its versatility, productivity and workability, based upon inter-related parameters including climate, relief, soil characteristics and drainage. These factors form the basis for classifying agricultural land into one of five grades (with Grade 3 land divided into Subgrades 3a and 3b), ranked from excellent (Grade 1) to very poor (Grade 5). ALC is determined using the Ministry of Agriculture, Fisheries and Food (MAFF) Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land, 1988.
Agro-climate characteristics	The interrelationship between climate and farming systems, influencing crop suitability and agricultural productivity.

Glossary of Terms Term	Definition
Air Quality Management Area (AQMA)	A defined area by virtue of Section 82(3) of the Environment Act 1995 ¹ , where it appears that the air quality objectives prescribed under the UK Air Quality Strategy ² will not be achieved. In these areas, a Local Authority must designate Air Quality Management Areas, within which an Action Plan can be proposed to secure improvements in air quality so that prescribed air quality objectives can be achieved.
Ambient Noise Level, $L_{Aeq,T}$	The equivalent continuous A-weighted sound pressure level of the totally encompassing sound in a given situation at a given time that is usually composed of sound from many sources near and far.
Applicant	Meridian Solar Farm Limited.
Arable land	Land suitable for growing crops.
Archaeological Mitigation Management Strategy (AMMS)	A strategy specific to the Scheme which ensures appropriate controls are in place to mitigate the impact of the works on archaeological resources.
Automatic Traffic Count (ATC)	Usually identified as two rubber tubes laid across the carriageway linked to a roadside recorder box. These tubes can measure both speed and number of vehicle movements and in some cases the weight of vehicles passing over.
Baseline	Environmental conditions at specific periods of time present on, or near, the Site, against which future changes as a result of the Scheme are measured or predicted.
Battery Energy Storage System (BESS)	Batteries with associated infrastructure that would allow for the storage, import and export of electricity by the Scheme.
Battery Safety Management Plan (BSMP)	A plan specific to the Scheme which ensures appropriate controls are in place for the safe operation of a Battery Energy Storage System (BESS).
BESS compound	The compound housing the BESS.

¹ Environment Act 1995. Available at: <https://www.legislation.gov.uk/ukpga/1995/25/data.pdf>

² Department for Environment, Food and Rural Affairs (2023) Air Quality Strategy: Framework for Local Authority Delivery. Available at: https://assets.publishing.service.gov.uk/media/64e8963d635870000d1dbf9d/Air_Quality_Strategy_Web.pdf

Glossary of Terms Term	Definition
Best and Most Versatile (BMV) Land	Agricultural land that is defined as within ALC Grade 1, 2, or 3a.
Biodiversity Net Gain (BNG)	A measurable improvement in biodiversity after development compared to the baseline.
Bird Flight Diverters (BFDs)	Devices fitted to overhead conductors to increase visibility and reduce bird collision risk.
Brown & Shepherd method	Territory mapping method for breeding birds commonly used for ground-nesting species such as skylark.
Buffer	The specified distance or area surrounding a feature of interest or the Site.
Cable Sealing End Compound (CSEC)	Substation-type compound at transition points between underground cables and overhead lines.
Chartered Institute of Ecology and Environmental Management (CIEEM)	The professional body for ecologists and environmental managers, many of which are either Chartered Ecologists or Chartered Environmentalists.
CL31 Licence: Water Vole Displacement License	Natural England class licence for the displacement of water voles from short sections (<50 m) of bank for works.
Climate Change	A change in weather patterns (namely temperature and precipitation) measured over a minimum of 30 years that occurs locally, regionally and globally.
Climate Change Risk Assessment	An assessment of hazards arising from climate change on the Scheme.
Climate Projection	The simulated response of the climate system to a scenario of future emission or concentration of greenhouse gases (GHGs) and aerosols, generally derived using climate models. Climate projections are distinguished from climate predictions by their dependence on the emission/concentration/radiative forcing scenario used, which is in turn based on assumptions concerning, for example, future socio-economic and technological developments.
CO ₂ equivalent (CO ₂ e)	A measure of how much a gas contributes to global warming, relative to carbon dioxide, by multiplying the mass of the gas (in tonnes), by the gas' global warming potential (GWP).

Glossary of Terms Term	Definition
Collision Risk Zone (CRZ)	Height band typically associated with elevated bird collision risk with overhead lines (e.g. 25-50 m above ground, scheme-specific).
Conservation Area	An area designated under section 69 of the Planning (Listed Buildings and Conservation Areas) Act 1990 ³ , designated as being of special architectural or historic interest, whose character or appearance it is desirable to preserve or enhance.
Construction Environmental Management Plan (CEMP)	A plan specific to the Scheme which ensures appropriate environmental management practices are followed during the construction phase.
Construction Traffic Management Plan (CTMP)	A plan specific to the Scheme which ensures appropriate controls are in place for the movement of vehicles and safe management of pedestrian access during works.
Controlled waste	Household, industrial and commercial waste (not agricultural waste, waste from mines or quarries and most radioactive waste).
Core Sustenance Zone (CSZ)	Typical foraging range for a bat roost (species/colony specific) used to frame zones of influence.
Cumulative effects	The summation of effects that result from changes resulting from the Scheme in conjunction with other reasonably foreseeable human induced effects. Effects can be direct and indirect and are within a specified geography across a certain time frame.
Decibel (dB)	A unit used to measure the intensity or loudness of sound, expressed on a logarithmic scale relative to a reference level. A logarithmic scale compresses a wide range of values into a manageable set of numbers. The comfortable range of human hearing is 0dB to 120dB.
Decommissioning Environmental Management Plan (DEMP)	A plan specific to the Scheme which ensures appropriate environmental management practices are followed during the decommissioning phase.

³ Planning (Listed Buildings and Conservation Areas) Act 1990. Available at: <https://www.legislation.gov.uk/ukpga/1990/9/data.pdf>

Glossary of Terms Term	Definition
Decommissioning Transport Management Plan (DTMP)	A plan specific to the Scheme which ensures appropriate controls are in place for the movement of vehicles and safe management of pedestrian access during the decommissioning phase.
Decommissioning Phase	The phase of the Scheme during which it will be taken out of operation, with above ground components dismantled and removed and the Site reinstated to its previous condition.
Design Parameters	Certified document defining key environmental/technical parameters that constrain detailed design.
Designated Landscape	Areas of landscape identified as being of importance at international, national or local levels, either defined by statute or identified in development plans or other documents (e.g. National Landscapes).
Development Consent Order (DCO)	A legislative instrument which provides permission for the construction, operation and decommissioning of a nationally significant infrastructure project as granted under the Planning Act 2008.
Direct effect	An effect directly attributable to the Scheme.
Direct employment	Employment arising from jobs at the Site.
Dust Management Plan (DMP)	A plan specific to the Scheme which ensures appropriate controls are in place to prevent and mitigate dust emissions from the works.
Duty of Care	Legal responsibility for anyone who produces, imports, keeps, stores, transports, treats or disposes of waste to take all reasonable steps to ensure that the waste is managed properly.
Duty of Care checks	<p>Checks to ensure that only authorised persons transfer waste, and that the waste is managed legitimately, including checks on:</p> <ul style="list-style-type: none"> • The waste carrier’s registration certificate. • The waste broker’s registration certificate (if used). <p>The Environmental Permits for waste management facilities or proof of exemptions from permitting.</p>
Ecological Clerk of Works (ECoW)	Suitably qualified ecologist overseeing ecological compliance on site.

Glossary of Terms Term	Definition
Ecological Feature (Important)	A feature (habitat species or site) considered important enough to be included in the assessment.
Ecological Network	Connected habitats that allow movement and dispersal of species across the landscape.
Effect Interactions	The intra project effects. These are the combined effects of individual impacts from the Scheme, for example noise and air pollutants impacting on a single receptor.
Embedded Measures	In-built design measures embedded in the Scheme description and standard industry practice.
Embodied Carbon	Greenhouse gas emissions arising from the manufacturing, transportation, installation, maintenance, and disposal of building materials.
Emergence/Re-entry survey	Bat survey to confirm roost presence by observing bats leaving or returning to a roost at dusk/dawn.
Emission Scenario	A plausible representation of the future development of GHG emissions based on a set of assumptions about driving forces (such as demographic and socio-economic development, technological change, energy and land use) and their key relationships.
Enhancement	Improvements created by the Scheme.
Environment Agency	A public body responsible for protecting and improving the environment in England. Roles include flood risk management, industrial pollution regulation, protecting rivers, seas and drinking water.
Environmental effect	The consequence of an impact on the environment.
Environmental impact	A physical or measurable change to the environment attributable to the Scheme.
Environmental Impact Assessment (EIA)	A systematic process of assessing a scheme's likely significant environmental effects undertaken in accordance with the EIA Regulations ⁴ .
EIA Regulations	The EIA Regulations relevant to the Scheme are the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017. These transpose the requirement of an EIA for NSIP developments. The EIA

⁴ The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017. Available at: <https://www.legislation.gov.uk/ukxi/2017/572/data.pdf>

Glossary of Terms Term	Definition
	Regulations specify which developments are required to undergo EIA and schemes relevant to the NSIP planning process are listed under either ‘Schedule 1’ or ‘Schedule 2’.
Environmental Management Plans (EMPs)	Certified plans (CEMP, DEMP, LEMP, OEMP) that secure environmental controls and long-term management measures.
Environmental Statement (ES)	A formalised statement that includes the information that is reasonably required to assess the environmental effects of the Scheme and which the Applicant can, having regard to current knowledge and methods of assessment, reasonably be required to compile, but that includes at least the information referred to in the EIA Regulations.
European Waste Catalogue code	A six-digit number used to classify a particular waste stream.
Farmland Bird Mitigation Areas (FBMAs)	Retained/open arable areas managed specifically to support farmland birds (e.g. skylark).
Farmland Bird Mitigation Strategy (FBMS)	Certified strategy secured through the Outline Landscape and Ecology Management Plan (Doc Ref. 7.16) that sets prescriptions, monitoring, and adaptive management for farmland bird mitigation (e.g. skylark plots, headlands, fallow).
Field capacity	The amount of water that soil can hold after it has been thoroughly saturated and excess gravitational water has drained from large pores.
Field capacity days	Field capacity days refers to the number of days in the year when the soil is at or above field capacity. Field capacity days are important in relation to soil wetness for plant growth and the potential for damage to soils from farm machinery.
Flood Zone 1	Land assessed as having less than 1 in 1000 annual probability of river or sea flooding in any year.
Flood Zone 2	Land assessed as having between 1 in 100 and 1 in 1000 annual probability of river flooding or between 1 in 200 and 1 in 1000 annual probability of sea flooding in any year.

Glossary of Terms Term	Definition
Flood Zone 3a	Land assessed as having a 1 in 100 or greater annual probability of river flooding in any year or 1 in 200 or greater annual probability of sea flooding in any year.
Flood Zone 3b	<p>Land where water from rivers or the sea has to flow or be stored in times of flood. Often referred to as Functional Floodplains. This zone covers:</p> <ul style="list-style-type: none"> • Land that has a 3.3% or greater annual probability of flooding, with any existing flood risk management infrastructure working effectively • Land that is designed to flood, such as flood mitigation schemes, even if the area would only flood in extreme events, such as 0.1% annual probability.
Flume (temporary)	Pipe or duct used to maintain water flow through a work area during temporary works at watercourses.
Frequency (Hz)	The number of cycles per second (i.e. the number of vibrations that occur in one second); subjectively this is perceived as pitch.
Frequency Spectrum	The relative frequency contributions that make up a noise.
Fluvial	Relating to a river.
Geophysical survey	Geophysical survey is a non-intrusive pre-construction archaeological evaluation technique that exploits a variety of physical or chemical characteristics of rocks and soils to identify underground features of archaeological interest. Common techniques include magnetometer survey, magnetic susceptibility survey, and resistivity survey.
Global Warming Potential	Measure of how much energy the emissions of 1 tonne of gas will absorb over a given period of time, relative to the emissions of 1 tonne of CO ₂ .
Grid Connection	The 400kV overhead line connection (via steel lattice style towers with a standard height of approximately 50m) within the Grid Connection Route between the Solar Development Area and the proposed National Grid Weston Marsh B Substation. The Grid Connection would

Glossary of Terms Term	Definition
	connect the Scheme to the national electricity transmission system (NETS).
Grid Connection Route	Route of the 400kV connection to the National Grid planned Weston Marsh B Substation, east of Spalding, predominantly an overhead line (via steel lattice style towers with a standard height of approximately 50m), with one section of underground cable.
Gross Value Added (GVA)	The value created by businesses, industries, or sectors through the production of goods and services.
Groundwater	Water held underground in soil or rock crevices.
Habitat Regulations	The Conservation of Habitats and Species Regulations 2017 ⁵ , commonly referred to as the Habitat Regulations, protect sites which are internationally designated for threatened species and habitats.
Habitat Regulations Assessment (HRA)	An assessment completed to test if a plan or scheme could significantly harm the features for which an internationally designated site has been designated for its ecological or geological importance. The assessment is required under the Conservation of Habitats and Species Regulations 2017, commonly known as the Habitat Regulations, to ensure that protected habitats and species are not adversely affected.
Habitat Suitability Index (HSI)	A scoring system used to assess the suitability of waterbodies for GCN breeding (ARG UK method).
Habitat of Principal Importance (HPI)	Priority habitat listed under Section 41 of the NERC Act (England).
Hazardous waste	Waste with any hazardous properties as listed in Annex III of The Hazardous Waste (England and Wales) Regulations 2005 ⁶ .
Hazardous Waste Consignment Note	A document that accompanies the movement of any hazardous waste from production (cradle) to disposal (grave).

⁵ The Conservation of Habitats and Species Regulations 2017. Available at: <https://www.legislation.gov.uk/uksi/2017/1012/data.pdf>

⁶ The Hazardous Waste (England and Wales) Regulations 2005. Available at: <https://www.legislation.gov.uk/uksi/2005/894/contents> [Accessed October 2025]

Glossary of Terms Term	Definition
Heavy Goods Vehicle (HGV)	Vehicles that align with one or more of the following: <ul style="list-style-type: none"> • Has 3 axles (articulated) or • Has 4 or more axles (rigid and articulated). • Has a gross weight exceeding 3.5 tonnes
Hedgerow gapping	Planting to infill gaps in existing hedgerows to restore connectivity and structure.
Historic England	The statutory body responsible for matters relating to designated heritage assets.
Historic Environment Record (HER)	A record of known archaeological features, historic buildings and historic landscape features maintained by each County and Unitary Authority within the United Kingdom.
Horizontal Directional Drilling (HDD)	Trenchless technique for installing underground cables beneath obstacles (e.g. certain roads or watercourses).
Impact	A physical or measurable change to the environment attributable to the Scheme.
In-combination Climate Change Impact	Combined effect of the impacts of the Scheme and potential climate change impacts on the surrounding environment.
Indirect effects	Effects that result indirectly from the Scheme as a consequence of the direct effects, often occurring away from the Site, or as a result of a sequence of interrelationships or a complex pathway. They may be separated by distance or time from the source of the effects.
Indirect employment	Employment generated through supply chain spending and related activities resulting from on-site operations.
Inter-Array Connection	The land required to connect Solar Development Areas, comprising a 132kV underground cable between Land Parcels A and B and an 132kV overhead line (with wooden poles with a maximum height of 15 metres) between Land Parcels C and D.
Invasive Non-Native Species (INNS)	Plant/animal species introduced outside native range that can cause ecological harm; subject to biosecurity controls.

Glossary of Terms Term	Definition
Inverters	Devices used to convert power between direct current (DC) electricity to alternating current (AC).
Impact Risk Zone (IRZ)	A Natural England Geographical Information System (GIS) tool that helps planning authorities quickly assess if a development proposal might harm a Site of Special Scientific Interest (SSSI).
Land use	What land is used for, based on broad categories of functional land cover such as urban and industrial use and the different types of agricultural and forestry.
Landscape	An area, as perceived by people, the character of which is the result of the action and interaction of natural and/or human factors.
Landscape and Visual Impact Assessment (LVIA)	A tool used to identify and assess the likely significance of the effects of change resulting from development both on the landscape as an environmental resource in its own right and on people's views and visual amenity.
Landscape and Ecology Management Plan (LEMP)	A plan specific to the Scheme which ensures the successful establishment and future management of biodiversity and landscaping works.
Level LA _{10,T}	The A-weighted sound pressure level exceeded for 10% of a given time interval (T), measured using the fast time weighting (F). This unit of measurement is used as part of the noise assessment.
Lighting (bat-sensitive)	Lighting designed to minimise spill intensity and spectral effects on bats and other nocturnal fauna.
Light Goods Vehicle (LGV)	A commercial motor vehicle with a total gross weight of 3,500kg or less.
Line marking	Fitting markers to conductors/earth wires to reduce bird collision risk (day and night visible where appropriate).
Listed building	A building considered to be of special architectural or historic interest which is listed in accordance with the Planning (Listed Buildings and Conservation Areas) Act 1990 ⁷ .

⁷ Listed Buildings and Conservation Areas (1990). Available at: <https://www.legislation.gov.uk/ukpga/1990/9/contents>

Glossary of Terms Term	Definition
Lowest Observed Adverse Effect Level (LOAEL)	The level below which no negative effect on health and quality of life due to noise emissions can be detected. Noise level exceeding the LOAEL can cause small changes in behaviour, attitude or other physiological response
Local Enterprise Partnership (LEP)	A partnership between local authorities and businesses that seek to foster enterprise and innovation in their local area.
Local Plan	A planning document produced by a local authority that sets out policies and proposals to guide how land is developed and used in an area over a set period.
Local Planning Authority (LPA)	The public authority whose duty it is to carry out specific planning functions for a particular area. For this Scheme the LPAs are South Holland District Council (SHDC) and Lincolnshire County Council (LCC).
Local Wildlife Site (LWS)	Non-statutory site designated locally for nature conservation importance.
L _{pA} (or L _A)	The A-weighted instantaneous sound pressure level (L _{pA} or L _A). This unit of measurement is used as part of the noise assessment.
L _{max}	The maximum instantaneous sound pressure level (L _{max}). This unit of measurement is used as part of the noise assessment.
Lower Layer Super Output Areas	Lower Layer Super Output Areas (LSOAs) are a geographical hierarchy used in England and Wales for statistical analysis, particularly in census data. They are designed to have a consistent population size, typically containing between 1,000 and 3,000 residents.
Magnitude	A combination of the scale, extent and duration of an effect.
Manually Classified Count (MCC)	A traffic count which is undertaken manually such as by an observer visually counting and recording the volume of vehicles on a tally sheet.
Mitigation hierarchy	Avoid, minimise, restore, and, if necessary, compensate or offset adverse effects.

Glossary of Terms Term	Definition
Mitigation Measures	Actions proposed to avoid, prevent, reduce and where possible offset adverse environmental effects arising from the whole or specific elements of the Scheme.
Monitoring (ecology)	Post-consent surveys/inspections to check performance of mitigation/enhancement and to trigger adaptive management.
National Energy System Operator NESO	Independent public body in Great Britain responsible for both real-time operation and strategic planning of the electricity and gas systems.
National Electricity Transmission System (NETS)	High voltage electricity transmission network across England and Wales comprising pylons, overhead lines, cables and substations that supply low voltage local distribution networks.
National Grid Electricity Distribution (NGED)	A distribution network operator (DNO) that owns and operates lower-voltage distribution networks delivering electricity to homes and businesses in Midlands, South Wales, South West.
National Grid Electricity Transmission (NGET)	The transmission owner for the high-voltage electricity transmission network in England and Wales, owning and maintaining the core infrastructure (e.g. 400 kV and 275 kV lines) that moves electricity from generators to distribution networks across Great Britain.
National Planning Policy Framework (NPPF)	The framework for the Government's planning policies for England and how they are expected to be applied.
National Policy Statements (NPS)	The primary policy for nationally significant infrastructure projects (NSIPs), detailing how applications will be assessed and the way impacts and mitigations will be judged.
Nationally Significant Infrastructure Project (NSIP)	Schemes of a certain classification and scale that are considered of national importance that apply to the Planning Inspectorate for development consent by virtue of the Planning Act 2008 ⁸ .
National Transport Model	A multi-modal model of land-based transport in Great Britain, used to inform transport policy and roads strategy and produce road traffic forecasts.

⁸ Planning Act 2008. Available at: <https://www.legislation.gov.uk/ukpga/2008/29/data.pdf>

Glossary of Terms Term	Definition
National Trip Ends Model	A model which forecasts the growth in trip origin destinations (or production-attractions) for use in transport.
Nitrate Vulnerable Zone (NVZ)	NVZs are statutory designated areas identified as being at risk from agricultural nitrate pollution. These constitute about 55% of land in England. The designations are made in accordance with the Nitrate Pollution Prevention Regulations 2015.
Non-hazardous waste	Waste which does not display any of the hazardous properties listed in Annex III of The Hazardous Waste (England and Wales) Regulations 2005.
Non-Technical Summary	A clear and concise document summarising the Environmental Statement. It simplifies technical information, making the Environmental Statement easily understandable and accessible to a wider audience, including the general public.
On-Site Substations	An electrical power facility that contains transformers, switchgear and associated equipment to step up, step down, switch, control and safeguard the flow of electricity. There will be one 400 kV substation and three 132 kV substations. The 400 kV substation provides the connection point between the solar generating site and the National Electricity Transmission System (NETS), via the Grid Connection Route. The 132 kV substations receive electricity from internal collection systems and prepare it for onward distribution to the 400 kV substation.
Operational Environmental Management Plan (OEMP)	A specific plan developed to ensure that appropriate environmental management practices are followed during the operational phase of a project.
Order Limits	The limits shown on the land plans and works plans within which the authorised development may be carried out and land acquired or used
PA 2008	The Planning Act 2008 (as amended).
Peak Particle Velocity (PPV)	The peak speed of particle movement in the ground due to vibration and used to assess impacts from construction activity induced vibration. The Peak Particle Velocity is defined as millimetres per second (mm/s).

Glossary of Terms Term	Definition
Permissive Paths	New recreational informal paths established as part of the Scheme signed as permissive that the landowner allows the public to use for the life of the Scheme.
Plastic state	Plasticity of soils is due to the presence of water and clay minerals, which allow soil particles to slide past each other. In its plastic state, soil can be moulded into different shapes without cracking.
Preliminary Ecological Appraisal	The first stage in evaluating the ecological features of a site.
Preliminary Environmental Information Report (PEIR)	A report prepared for Stage 2 consultation which contains information to assist the community, stakeholders and consultees to develop an informed view of the likely environmental impacts of a scheme.
Preliminary Environmental Information (PEI)	PEI is defined in the EIA Regulations as: "information referred to in Regulation 14(2) which – <i>(a) has been compiled by the applicant; and</i> <i>(b) is reasonably required for the consultation bodies to develop an informed view of the likely significant environmental effects of the development (and of any associated development)."</i>
Preliminary Risk Assessment (PRA)	A desk-based review on the potential risks in relation to contaminated land in regard to human health, controlled waters and the wider environment.
Principal Contractor	Contractor appointed to coordinate the construction phase of a project where it involves more than one contractor. The Applicant may take on the role of the Principal Contractor.
Priority Habitat	Habitats conserved to be of principal importance for conserving habitats, listed under Section 41 of the NERC Act and identified in the UK Biodiversity Action Plan ⁹ .
Public Rights of Way (PRoW)	Rights across land exercisable by the public at all times.
Ramsar site	Wetland of international importance designated under the Ramsar Convention.

⁹ HMSO (1994) Biodiversity – The UK Action Plan. Available at: <https://data.jncc.gov.uk/data/cb0ef1c9-2325-4d17-9f87-a5c84fe400bd/UKBAP-BiodiversityActionPlan-1994.pdf>

Glossary of Terms Term	Definition
Rating Level, $L_{A,r,Tr}$	The specific noise level plus any adjustment for any characteristic features of the noise.
Receptor	A component of the natural, created or built environment such as humans, water, air, a building, or a plant that has the potential to be affected by the Scheme.
Registered Waste Carrier	A person who holds a registration certificate from the Environment Agency to transport waste.
Representative Concentration Pathway (RCP)	RCPs are standardized greenhouse gas concentration scenarios used in climate modelling that describe different possible futures based on varying levels of emissions, land use, and radiative forcing, helping scientists project climate change impacts and inform policy and planning decisions. Radiative forcing targets for 2100 have been set at 2.6, 4.5, 6.0, and 8.5 watts per square metre ($W m^{-2}$) to span a wide range of plausible future emissions scenarios
Reference Time Interval, T_r	The specified interval over which an equivalent continuous A-weighted sound pressure level is determined.
Rochdale Envelope	EIA approach assessing a defined range of design parameters to capture a realistic worst case.
Roost (bat) - day/ maternity/ hibernation	Day roost used by single/few bats; maternity roost used by breeding females and young; hibernation roost used during winter.
Scheduled Monument	A nationally important archaeological site or historic structure that is designated by the Secretary of State and legally protected under the Ancient Monuments and Archaeological Areas Act 1979 ¹⁰ .
Scheme	All components within the Site, including the Solar Development Area, the Inter-Array Connection, and the Grid Connection.
Scoping	An exercise undertaken to determine the topics to be addressed within the Environmental Statement.

¹⁰ Ancient Monuments and Archaeological Areas Act 1979. Available at: <https://www.legislation.gov.uk/ukpga/1979/46/data.pdf>

Glossary of Terms Term	Definition
Sections 41 species (S41)	Species of Principal Importance for conservation in England (NERC Act).
Sensitive Receptor (ecology)	An ecological feature likely to be affected by a pathway (e.g. species habitat designated site).
Sensitivity	A term applied to specific receptors, combining judgements of the susceptibility of the receptor to the specific type of change or development proposed and the value related to that receptor.
Significance (effect)	A measure of the importance or gravity of the environmental effect defined by significance criteria specific to the environmental topic.
Site	The total land area required for the Scheme.
Site Waste Management Plan (SWMP)	The document provided as part of this DCO Application is the Outline SWMP. This will be developed into a detailed SWMP prior to commencement of works which will set out how material resources and waste will be managed and controlled at all stages during a construction project.
Significant Observed Adverse Effect Level (SOAEL)	Noise above this level can cause a material change in behaviour, attitude or other physiological response and is a significant adverse effects on health and quality of life.
Soil associations	Groupings of related soil series
Soil series	The lowest category in the soil classification system and are precisely defined based upon particle-size distribution, parent material (substrate) type, colour and mineralogical characteristics
Soil Management Plan (SMP)	A site-specific plan developed to ensure appropriate management practices are followed during excavation, storage, and restoration of soils.
Solar Development Area	The land required for the Scheme comprising land parcels (A, B, C and D) which would host the energy generation facilities (and associated supporting infrastructure), Battery Energy Storage System (BESS) and On-Site Substation Compounds, excluding the Inter-Array Connections and Grid Connection Route.

Glossary of Terms Term	Definition
Solar PV modules	A connected collection of multiple solar PV cells within a protective laminate. Modules are also referred to as 'panels'.
Solar Stations	Containerised units containing the equipment that converts the direct current (DC) electricity generated by the solar PV modules into alternating current (AC) and provide control and onward distribution of electricity across the Solar Development Area.
Sound Pressure Level (L_p)	The instantaneous sound pressure level (L_p)
Source Protection Zones (SPZ)	SPZs show the risk of contamination from any activities that might cause pollution to groundwater sources such as wells, boreholes, and springs used for public water supplies. The closer the activity, the greater the risk. SPZs can comprise up to three main zones (inner, outer, and total catchment). A fourth zone of special interest can also occasionally be applied to a groundwater source
Specific Noise Level, $L_{Aeq,Tr}$	The equivalent continuous A-weighted sound pressure level at the assessment position produced by the specific noise source over a given reference time interval.
Stand-off (buffer)	A minimum separation distance from a sensitive feature (e.g. 10 m from drain banks) within which there will be no solar PV and associated infrastructure installed.
Study area	The area in which a particular assessment or survey is carried out. The study areas are a function of the nature of the impacts and the locations of potentially affected environmental resources or receptors. The study areas will vary depending on the nature of the technical assessment. .
Subsoil	Layer (or horizon) of soil immediately beneath the surface topsoil. Generally, less structurally developed and less nutrient rich than the topsoil
Sustainable Drainage System (SuDs)	Sustainable management practices designed to control the rate and quality of surface water runoff into receiving waters, for example the use of swales and wetlands as buffers, as opposed to conventional drainage practices.
Switchgear	A collection of electrical disconnect fuses, switches or circuit breakers that can be used to protect, control and isolate electrical equipment and circuits.

Glossary of Terms Term	Definition
Temporary Traffic Management	A system of controlling traffic movement (such as through or past a works site) to maximise safety for, and minimise inconvenience to, road workers and road users.
Topsoil	Natural topsoil or manufactured topsoil, varies in depth with soil type but typically the upper 200-300 mm, supporting plant growth.
Trackout (dust)	Movement of dust/mud from construction sites onto the public highway by vehicles and plant.
Transformers	Transformers control the voltage of the electricity generated across the site before it reaches the electrical infrastructure.
Trip End Model Program	Software which allows users to view the National Trip End Model (NTEM) dataset. NTEM is a model developed by the UK Department for Transport that forecasts future travel patterns and trip origins in Great Britain. It provides long-term estimates of personal travel by all modes, including walking and cycling. It is essential for transport planning and modelling.
UK Habitat Classification (UKHab)	Contemporary habitat classification and mapping system used for baseline and BNG.
Vantage Point (VP) survey	Fixed-point bird survey method recording flight activity duration and height bands.
Water Framework Directive (WFD)	A European Directive which introduces a planning process to manage, protect and improve the water environment. It applies to all rivers (including drains and ditches), lakes, estuaries, coastal waters and groundwater.
Wetness class	A classification of soil wetness according to depth and duration of waterlogging in the soil from Class 1 (least wet) to Class VI (wettest)
Zone of Influence (Zol)	The limit determined for each specialist study in which the construction or operation of the Scheme component has the potential to cause an adverse or beneficial effect on a receptor. This will inform the definition of the discipline-specific study area defined for their assessment.
Zone of Theoretical Visibility (ZTV)	The zone within which views of a proposed development may be experienced, as determined by analysis of

Glossary of Terms Term	Definition
	topographical data and field survey. It is influenced by many factors including topography and intermediate visual intrusions, such as blocks of woodland and buildings..
60-Minute Drive Time Catchment Area	An area comprising the 60-minute drive time from the Order Limits.

Abbreviations

Abbreviation	Term
AADT	Annual Average Daily Traffic
AC	Alternating Current
ADS	Archaeology Data Service
AEGL	Acute Exposure Guideline Levels
AEP	Annual Exceedance Probability
AIL	Abnormal Indivisible Loads
AIR	Air Information Resource
ALC	Agriculture Land Classification
AMCT	Annual Mean Concentration Target
ANC	Association of Noise Consultants
AOD	Above Ordnance Datum
AONB	Area of Outstanding Natural Beauty
APS	Air Photography Services
AQAL	Air Quality Assessment Level
AQMA	Air Quality Management Area
AQO	Air Quality Objective
AQS	Air Quality Standard
ARN	Affected Road Network
ARG UK	Amphibian and Reptile Groups of the UK
ASR	Annual Status Report
ATC	Automatic Traffic Counts
ATCT	Air Traffic Control Tower
AWS	Anglian Water Services
BAP	Biodiversity Action Plan
BCT	Bat Conservation Trust
BESS	Battery Energy Storage System
BGL	Below Ground Level
BGS	British Geological Survey
BMV	Best and Most Versatile

Abbreviation	Term
BNG	Biodiversity Net Gain
BoCC	Birds of Conservation Concern
BPM	Best Practicable Means
BRE	British Research Establishment
BRES	Business Register and Employment Survey
BS	British Standards Institution
BSMP	Battery Safety Management Plan
BSSS	British Society of Soil Science
BTO	British Trust for Ornithology
CAA	Civil Aviation Authority
CAST	Combined Aerodrome Safeguarding Team
CCC	Climate Change Committee
CCR	Climate Change Risk
CCRA	Climate Change Risk Assessment
CCS	Considerate Constructors Scheme
CCTV	Closed Circuit Television
C&D waste	Construction and demolition waste.
CDM	Construction, Design and Management
CE	Conformité Européene
CEA	Cumulative Effects Assessment
CEMP	Construction Environmental Management Plan
CH ₄	Methane
CIEEM	Chartered Institute of Ecology and Environmental Management
CifA	Chartered Institute for Archaeologists
CIRIA	Construction Industry Research and Information Association
CL:AIRE DoW CoP	Contaminated Land: Applications in Real Environments Definition of Waste: Development Industry Code of Practice

Abbreviation	Term
CL31	Class License 31 (Water Vole Displacement)
CNP	Critical National Priority
CO ₂	Carbon Dioxide
COMAH	Control of Major Accident Hazards
COSHH	Control of Substances Hazardous to Health
CR	Commitments Register
CRR	Community Risk Register
CRTN	Calculation for Road Traffic Noise
CSECs	Cable Sealing End Compounds
CTMP	Construction Traffic Management Plan
dB (A)	A-weighted decibel
DBA	Desk-Based Assessment
DC	Direct Current
DCO	Development Consent Order
DECC	Department of Energy and Climate Change
DEFRA	Department for Environment, Food and Rural Affairs
DEMP	Decommissioning Environmental Management Plan
DESNZ	Department of Energy Security and Net Zero
DfT	Department for Transport
DMP	Dust Management Plan
DMRB	Design Manual for Roads and Bridges
DNO	Distribution Network Operator
Doc Ref.	Document Reference
DoWCoP	The Definition of Waste: Development Industry Code of Practice
DRA	Dust Risk Assessment
DRD	Downing Renewable Developments
DrWPA	Drinking Water Protected Area

Abbreviation	Term
DTMP	Decommissioning Transport Management Plan
DWTP	Decommissioning Worker Travel Plan
EA	Environment Agency
ECoW	Ecological Clerk of Works
EclA	Ecological Impact Assessment
EIA	Environmental Impact Assessment
EMF	Electric and Magnetic Fields
EMP	Environmental Management Plan
EN-1	Overarching National Policy Statement for Energy
EN-3	NPS for Renewable Energy Infrastructure
EN-5	NPS for Electricity Networks Infrastructure
EPUK	Environmental Protection UK
ERP	Emergency Response Plan
ES	Environmental Statement
ESDAL	Electronic Service Delivery for Abnormal Loads
EU	European Union
EWC	European Waste Catalogue code
ExA	Examining Authority
FAA	Federal Aviation Administration
FBMA	Farmland Bird Mitigation Area
FBMS	Farmland Bird Mitigation Strategy
FCD	Field Capacity Days
FOI	Freedom of Information [request]
FRA	Flood Risk Assessment
FTE	Full Time Equivalent
GCN	Great Crested Newt
GCR	Grid Connection Route
GHG	Green House Gas

Abbreviation	Term
GLNP	Greater Lincolnshire Nature Partnership
GLTA	Ground Level Tree Assessment (bats)
GP	General Practitioner
GPP	General Pollution Prevention [guidance]
GW	Gigawatt
GWDTE	Groundwater Dependent Terrestrial Ecosystem
GVA	Gross Added Value
H&SP	Health & Safety Plan
Ha	Hectare
HCA	Homes and Communities Agency
HDD	Horizontal Directional Drilling
HDV	Heavy Duty Vehicle
HE	Historic England
HEDBA	Historic Environment Desk-Based Assessment
HER	Historic Environment Record
HFOV	Horizontal Field of View
HGV	Heavy Goods Vehicle
HLC	Historic Landscape Character
HPI	Habitats of Principal Importance
HRA	Habitat Regulation Assessment
HSE	Health and Safety Executive
HSI	Habitat Suitability Index (GCN)
HVAC	Heating, Ventilation and Air Conditioning
HWCC	Hazardous Waste Consignment Note
Hz	Hertz
IAQM	Institute of Air Quality Management
ICCI	In-Combination Climate Change Impact
ICNIRP	International Commission on Non-Ionizing Radiation Protection

Abbreviation	Term
IDB	Internal Drainage Board
IEF	Important Ecological Feature
IEMA	Institute of Environmental Management and Assessment
IHBC	Institute of Historic Building Conservation
IIWS	Internationally Important Wildlife Site (SPA/SAC/Ramsar network)
IMD	Indices of Multiple Deprivation
INNS	Invasive Non-Native Species
IOA	Institute of Acoustics
IoD	Indices of Deprivation
IoQ	Institute of Quarrying
IPCC	Intergovernmental Panel on Climate Change
IRZ	Impact Risk Zone (SSSI)
ISEP	Institute of Sustainability and Environmental Professionals
ISO	International Organization for Standardization
ITL 1	International Territorial Level 1
JCCC	Joint Casualty and Compassionate Centre
JIT	Just-in-time
JNCC	Joint Nature Conservation Committee
km	Kilometre
kWp	Kilowatt peak
kV	Kilovolt
LA	Local Authority
LAeq	A-weighted, equivalent continuous sound level
LAQM	Local Air Quality Management
LBT	Legally Binding Targets
LCA	Landscape Character Area

Abbreviation	Term
LCC	Lincolnshire County Council
LDP	Local Development Plan
LDV	Light Duty Vehicle
LEMP	Landscape and Ecology Management Plan
LEP	Local Enterprise Partnership
LGV	Light Goods Vehicle
LHA	Local Highways Authority
LiDAR	Light Detection and Ranging
LLFA	Lead Local Flood Authority
LNR	Local Nature Reserve
LOAEL	Lowest Observed Adverse Effect Level
LOD	Limit of Deviation
LPA	Local Planning Authority
LRN	Local Road Network
LRSN	Lincolnshire Rural Support Network
LSEs	Likely Significant Effects
LSOA	Lower Layer Super Output Area
LVIA	Landscape and Visual Impact Assessment
LWS	Local Wildlife Sites
MAFF	Ministry of Agriculture, Fisheries and Food
MAGIC	Multi-Agency Geographic Information for the Countryside
mAOD	Meters Above Ordnance Datum
MCC	Manual Classified Count
MCTC	Manual Classified Turning Counts
MEWP	Mobile Elevated Working Platform
MMP	Materials Management Plan
MPA	Minerals Planning Authority
MSA	Mineral Safeguarding Area
MW	Megawatt

Abbreviation	Term
mWh	Megawatt Hours
NCA	National Character Area
NE	Natural England
NERC Act	Natural Environment and Rural Communities Act 2006
NESO	National Energy System Operator
NETS	National Electricity Transmission System
NF3	Nitrogen Trifluoride
NFCC	National Fire Chiefs Council
NGED	National Grid Electricity Distribution
NGET	National Grid Electricity Transmission
NGR	National Grid Reference
NH	National Highways
NHLE	National Heritage List for England
NHS	National Health Service
NLDIDB	North Level District Internal Drainage Board
NLS	National Library of Scotland
NMU	Non-Motorised User
NNR	National Nature Reserve
NO ₂	Nitrogen dioxide
NOEL	No Observed Effect Level
NO _x	Nitrogen Oxide
NPPF	National Planning Policy Framework
NPS	National Policy Statement
NPSE	Noise Policy Statement for England
NRMM	Non-Road Mobile Machinery
NRFA	National Rivers Flow Archive
NRTF	National Road Traffic Forecast
NSIP	Nationally Significant Infrastructure Project
NTM	National Transport Model

Abbreviation	Term
NTEM	National Trip End Model
NTS	Non-Technical Summary
NVZ	Nitrate Vulnerable Zone
OAMMS	Outline Archaeological Mitigation and Management Strategy
OBSMP	Outline Battery Safety Management Plan
OCEMP	Outline Construction Environmental Management Plan
OCGT	Open Cycle Gas Turbine
OCTMP	Outline Construction Traffic Management Plan
ODEMP	Outline Decommissioning Environmental Management Plan
OEMP	Operational Environmental Management Plan
OHL	Overhead Line
OLEMP	Outline Landscape and Ecology Management Plan
ONS	Office for National Statistics
OOEMP	Outline Operational Environmental Management Plan
OS	Ordnance Survey
OSMP	Outline Soil Management Plan
OSSCEP	Outline Skills, Supply Chain and Employment Plan
OSWMP	Outline Site Waste Management Plan
OWMS	Operational Waste Management Strategy
PAS	Publicly Available Specification
PoAS	Portable Antiquities Scheme
PA2008	Planning Act 2008
PCC	Peterborough City Council
PCS	Producer Compliance Scheme

Abbreviation	Term
PEA	Preliminary Ecological Appraisal
PEI	Preliminary Environmental Information
PEIR	Preliminary Environmental Information Report
PHE	Public Health England
PIC	Personal Injury Collision
PINS	Planning Inspectorate
PM ₁₀	Particulate matter of size fraction approximating to <10mm diameter
PM _{2.5}	Particulate matter of size fraction approximating to <2.5mm diameter
POMRA	Protection of Military Remains Act 1986
PoC	Point of Connection
PPG	Planning Practice Guidance
PPV	Peak Particle Velocity
PRA	Preliminary Risk Assessment
PRF	Potential Roost Feature (bat tree feature)
PRoW	Public Right(s) of Way
PV	Photovoltaic
PWS	Private Water Supply
RAMS	Risk Assessment and Method Statement
RBMP	River Basin Management Plan
RCP	Representative Concentration Pathway
RFC	Ratio of Flow to Capacity
RFFP	Reasonably Foreseeable Future Projects
RICS	Royal Institution of Chartered Surveyors
RNAGs	Reasons for not achieving good [under Water Environment (WFD) (England and Wales) Regulations 2017
S41	Section 41 (NERC Act) species/habitats of principal importance
SAC	Special Area of Conservation

Abbreviation	Term
SGHAT	Sandia Laboratories Solar Glare Hazard Analysis Tool
SELLP	South East Lincolnshire Local Plan
SF ₆	Sulphur Hexafluoride
SFRA	Strategic Flood Risk Assessment
SHDC	South Holland District Council
SHIDB	South Holland Internal Drainage Board
SIC	Standard Industrial Classification
SINC	Site of Importance for Nature Conservation
SM	Scheduled Monument
SMP	Soil Management Plan
SMR	Standardised Mortality Ratio
SOAEL	Significant Observed Adverse Effect Level
SoCC	Statement of Community Consultation
SoS	Secretary of State
SPA	Special Protection Area
SPD	Supplementary Planning Document
SPG	Supplementary Planning Guidance
SPI	Species of Principal Importance
SPZ	Source Protection Zone
SRN	Strategic Road Network
SSP	Site Security Plan
SSSI	Site of Special Scientific Interest
STEAM	Scarborough Tourism Economic Activity Monitor
SuD _s	Sustainable Urban Drainage System
SWMP	Site Waste Management Plan
TAN	Traffic Assessment Note
tCO ₂ e	Tonnes of carbon dioxide equivalent
TCPA	Town and Country Planning Association

Abbreviation	Term
TEMPro	Trip End Model Presentation Program
TGN	Technical Guidance Note
UGC	Underground Cable
UK	United Kingdom
UK-AIR	UK Air Information Resource
UKCA	UK Conformity Assessed
UKCP18	UK Climate Projections 2018
UKHab	UK Habitat Classification
UKHSA	United Kingdom Health Security Agency
US	United States
USRN	Unique Street Reference Number
UTC	Coordinated Universal Time
UXO	Unexploded Ordnance
VFOV	Vertical Field of View
VP	Vantage Point (bird survey)
WBS	Wintering Bird Survey
WC	Wetness Class
WCA	Wildlife and Countryside Act 1981
WDIDB	Welland and Deepings Internal Drainage Board
WEEE	Waste Electrical and Electronic Equipment
WFD	Waste Framework Directive
WTN	Waste Transfer Note
WHO	World Health Organisation
WPA	Waste Planning Authority
WPZ	Water Protection Zone
WRAP	Waste & Resources Action Programme
ZoI	Zone of Influence
ZTV	Zone of Theoretical Visibility

