

# **Green Hill Solar Farm**

## **EN010170**

### **Environmental Statement**

### **Contents, Glossary and Abbreviations**

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## Issue Sheet

Report Prepared for: Green Hill Solar Farm  
DCO Submission

## Contents, Glossary and Abbreviations

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## 2

## Glossary

**Table 2** sets out the key project description and wider glossary of terminology applied through the Environmental Statement.

**Table 2: Wider 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 commonly used to simulate the frequency response of the ear.
132kV substation	A 132 kV substation is a facility within a power grid that operates at a voltage level of 132 kilovolts, serving as an intermediate node to step down voltage, regulate power, and manage distribution.
400kV substation	A 400 kV substation is a facility in an electrical power system that handles electricity at a high voltage of 400 kilovolts, typically used for transmission and distribution purposes, often acting as a hub for connecting different parts of the grid.
Access Tracks	Temporary or permanent routes constructed to facilitate the movement of vehicles, machinery, and personnel during the construction, operation, and maintenance of a solar farm and its associated cable route.
ACoW	Arboriculture clerk of works
Agricultural Land Classification (ALC)	A means of assessing the quality of farmland. Its assessment is based on physical limitations of the land, such as climate, site characteristics (for example gradient) and soil. The assessment gives an indication of the versatility and expected yield of the land. The system classifies agricultural land in 5 grades. The best and most versatile land is classified as 1, 2 and 3a. The Agricultural Land Classification was developed by the former Ministry of Agriculture, Fisheries and Food (MAFF) in 1988 and revised in 1996.
Air Quality Management Area (AQMA)	Places where air quality objectives are not likely to be achieved. Where an AQMA is declared, the local authority is obliged to produce
Ambient noise Level, LAeq,T	The total sound in a certain situation at a given time usually composed of sound from many sources, near and far.
Annual Average Daily Traffic (AADT)	Traffic data obtained by calculating daily traffic flows and then calculating the annual average. Often used in predicting noise levels and air quality, usually in conjunction with other parameters such as average vehicle speed and percentage heavy vehicles.
Annual Average Weekly Traffic (AAWT)	Traffic data obtained by calculating weekly traffic flows and then calculating the annual average. Often used in predicting noise levels and air quality, usually in conjunction with other parameters such as average vehicle speed and percentage heavy vehicles.





Term	Definition
Annual Exceedance Probability (AEP)	The probability of a certain accumulation being exceeded in a particular year.
Associated Development	Additional infrastructure or facilities that are necessary for the project to function. Examples include: energy storage, grid connection infrastructure and any other infrastructure as well as works integral to the construction, operation, maintenance and decommissioning of the Scheme.
Background Noise Level LA90,T	The A-weighted sound pressure level of the residual noise at the assessment position that is exceeded for 90% of a given time interval, T, measured using the fast time weighting, F, and quoted to the nearest whole number.
Baseline conditions	The environment as it appears (or would appear) immediately prior to the implementation of the Scheme together with any known or foreseeable future changes that will take place before completion of the Scheme.
Battery Energy Storage System (BESS)	Battery Energy Storage Systems (BESS), is used to describe the battery storage installation to allow for the storage, importation, and exportation of energy to the National Grid.
Biodiversity	The biological diversity of the earth's living resources. The total range of variability among systems and organisms at the following levels of organisation: bioregional, landscape, ecosystem, habitat, communities, species, populations, individuals, genes and the structural and functional relationships within and between these different levels.
Biodiversity Net Gain (BNG)	Development that leaves biodiversity in a better state than before and involves an approach where developers work with local governments, wildlife groups, landowners and other stakeholders in order to support their priorities for nature conservation.
Bund	An embankment structure that can be used for landscape mitigation.
Cable circuit	An electrical conductor necessary to transmit electricity between two points within the Scheme and may include one or more auxiliary cables for the purpose of gathering monitoring data, earthing cables, cables for auxiliary supply, optical fibre and other types of communication cables, cables connecting to direct current boxes.
Cable Route Search Area	The area of land, still to be refined through further study, between the Sites and end point of connection at Grendon Substation within which the underground cables will be sited.
Conservation Area	An area of special environmental or historic interest or importance, of which the character or appearance is protected (Section 69 of the Planning (Listed Buildings and Conservation Areas) Act 1990).



Term	Definition
Conversion Unit	Conversion Units incorporate the inverters, transformers and switchgear and are required to manage the electricity generated by the PV Panels. These would either be standalone equipment or they would be housed ('integrated') together within a container.
Conversion Units	Conversion Units incorporate the inverters, transformers and switchgear and are required to manage the electricity generated by the PV Panels. These would either be standalone equipment or they would be housed ('integrated') together within a container.
County Wildlife Sites (CWS)	CWS designation is non-statutory but is recognition of a site's high value for wildlife, with many sites being of county and often regional or national importance. They often support characteristic or threatened species and habitats included in Local and National Biodiversity Action Plans
Cumulative effects	<p>Effects upon the environment that result from the incremental impact of an action when added to other past, present or reasonably foreseeable actions.</p> <p>Each impact by itself may not be significant but can become a significant effect (in EIA terms) when combined with other impacts.</p>
Decibel (dB)	The decibel is a logarithmic ratio of two values of a variable. The range of audible sound pressures is approximately $2 \times 10^{-5}$ Pascals (Pa) to 200 Pa. Using decibel notation presents this range in a more manageable form, 0 dB to 140 dB.
Decommissioning Environmental Management Plan (DEMP)	A specific plan developed to ensure that appropriate environmental management practices are followed during the decommissioning phase of a project.
Design Manual for Roads and Bridges (DMRB)	A series of 15 volumes authored by Highways England that provide standards, advice notes and other published documents relating to the design, assessment and operation of trunk roads, including motorways in the United Kingdom, and, with some amendments, the Republic of Ireland.
Developable areas	Refers to the portion of the site that is actually suitable and available for construction.
Development Consent Order (DCO)	Development consent is required pursuant to the Planning Act 2008 for Nationally Significant Infrastructure Projects. A development consent order (DCO) is a statutory instrument containing powers that enable the applicant to carry out the construction, operation, maintenance and decommissioning of the Nationally Significant Infrastructure Project.
Earls Barton Quarry and Earls Barton Spinney Quarry.	Mineral quarries that the Cable Route Corridor passes through between Green Hill F and Green Hill BESS.



Term	Definition
Electric field	An electric field is the physical field that surrounds electrically charged particles and exerts force on all other charged particles in the field, either attracting or repelling them. Measured in volt per meter (Vm-1) or newton per coulomb (NC-1).
Electromagnetic field (EMF)	Property of space caused by the motion of an electric charge and is the product of mutual interaction between electric fields and magnetic fields. A such, these are produced in the surrounding area of anywhere there is an electric current.
Energy from waste (EFW)	A process that involves converting non-recyclable waste materials into usable heat, electricity, or fuel through various methods, such as combustion, gasification, and anaerobic digestion.
Environmental effect	The consequence of an action (impact) upon the environment. Effects are given a significance rating (negligible, minor, moderate or major) depending on the methodology applied by each topic.
Environmental impact	The change in the environment from a development such as the removal of a hedgerow.
Environmental Impact Assessment (EIA)	A process, underpinned by legislation, by which information about environmental effects of a proposed development is collected, assessed and used to inform decision making. For certain projects, EIA is a statutory requirement.
Environmental Impact Assessment (EIA) Regulations	Regulations that give planning authorities a means of ensuring that they can take account of the environmental, economic and social implications of individual developments in their decisions on planning applications.
Environmental Statement	A document produced in accordance with the EU's EIA Directive (2011/92/EU as amended by 2014/52/EU) as transposed into UK law (for DCO projects) by the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 to report the results of an EIA.
Fixed Panels	Fixed solar panels, also known as fixed solar photovoltaics or fixed PV panels, are mounted panels on a roof, ground mount, or tracker system, and generate electricity by capturing the sun's rays. Inverters convert this power into usable energy.
Flood Zone	Flood Zone definitions are set out in the National Planning Policy Guidance. There are three flood zones which refer to the probability of river and sea flooding, not taking account of the presence of flood defences.
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.
Generating station	The elements of the project that generate the electricity output, namely: solar modules fitted to mounting structures; DC



Term	Definition
	electrical cabling; conversion units including inverters, transformers, switchgear, and monitoring and control systems; and electrical and communications cabling connecting the generating station to a sub-station.
Green Hill A, Green Hill A.2, Green Hill B, Green Hill C, Green Hill D, Green Hill E, Green Hill F, Green Hill G, Green Hill BESS.	The names for the nine sites that will accommodate the ground mounted solar photovoltaic generating stations and associated infrastructure.
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.
Grendon Substation	The existing 400kV substation located approximately 1km north-west of the village of Grendon.
Grid Connection Cables	Grid connection cables are the physical connections, typically using power lines and substations, that link electricity generation and consumption points to the wider electrical grid.
Ground mounted PV Modules	Solar photovoltaic (PV) modules attached to structures that are fixed to the ground.
Important Ecological Features (IEFs)	Each habitat, species or site of importance or above.
Interconnecting cables	Interconnecting cables are specialized cables designed to connect different pieces of electronic equipment, facilitating the transfer of signals or power between them.
Inverter	Inverters convert the direct current (DC) electricity into alternating current (AC), which allows the electricity generated to be exported to the national grid.
Jointing bay	Underground structures constructed at regular intervals along the cable route to join sections of the cable circuits and facilitate installation of the cable circuits into the buried ducts.
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. The LVIA is usually reported as a chapter to the Environmental Statement, including appendices and figures.
Level LA10,T	The A-weighted sound pressure level exceeded for 10% of a given time interval, T, measured using the fast time weighting, F.



Term	Definition
Lowest Observed Adverse Effect Level	This is the level of noise above which adverse effects on health and quality of life can be detected.
Magnetic field	A magnetic field is a vector field that describes the magnetic influence on moving electric charges, electric currents, and magnetic materials. The magnetic flux density of the field is measured in tesla (T), based on the SI unit kilogram per second squared per ampere (kgm-2A-1).
Mitigation	Measures including any process, activity, or design to avoid, reduce, or remedy for negative environmental impacts or effects of a development.
Mounting Structures	The metal frames onto which the PV Panels are attached.
National Grid Substation	A National Grid substation is a large installation where 275 kV and 400 kV overhead power lines or underground cables are switched and where electricity is transformed to 33/132 kV for distribution to surrounding areas.
National Policy Statement (NPS)	National Policy Statements are produced by government in accordance with Part 2 of the Planning Act 2008. They comprise the government's central policy documents for the development of nationally significant infrastructure
Nationally Significant Infrastructure Projects (NSIP)	NSIPs are large scale developments (as defined in sections 14-30A of the Planning Act 2008) such as certain new harbours, power generating stations (including wind farms), highways developments and electricity transmission lines, which require a type of consent known as 'development consent' which is governed by the Planning Act 2008 (and amended by the Localism Act 2011).
On-site cables as earthing cables and optical fibre cables.	The low or medium voltage cables within the Solar Farm, which transmit electricity between solar PV Modules to inverters and transformers, and from there to the proposed on-site substation and BESS. These cables consist of 33, 132 and 400 kilovolt cables, as well as earthing cables and optical fibre cables.
Outline Battery Fire Safety Management Plan (OBSMP)	This document identifies the measures required to avoid and reduce the risk of fire from the batteries within the Scheme, as well as how to effectively manage a fire should the event occur.
Outline Construction Environmental Management Plan (OCEMP)	A site-specific plan which is developed to ensure that appropriate environmental management practices are followed during the construction phase of a Scheme.
Outline Decommissioning Statement (ODS)	A specific plan developed to ensure that appropriate environmental management practices are followed during the decommissioning phase of a project.



Term	Definition
Outline Landscape and Ecological Management Plan (OLEMP)	The OLEMP sets out the landscape and ecological management actions for the Scheme, outlining how mitigation measures, identified within the Environmental Statement, will be delivered through future landscape works and management.
Outline Operational Environmental Management Plan (OOEMP)	The OEMP identifies environmental mitigation measures required during operation of the Scheme that have been identified as part of the EIA. It defines those environmental commitments and actions that will be implemented during the operation and maintenance of the Scheme.
Outline Soil Management Plan	The OSMP is appended to Chapter 20 Agricultural Circumstances and sets out topics for the detailed Soil Management Plan (DSEMP).
Permanent Access Points	Designated entry and exit locations along a solar farm's infrastructure, including the cable route, that remain in place after construction to provide ongoing access for operation, maintenance, and emergency response.
Permissive Paths	Permissive paths are areas on private land where landowners have granted permission for public use, but these are not legally recognized as public rights of way.
Photovoltaic (PV)	The process of converting sunlight to electrical energy.
Planning Inspectorate (PINS)	The Planning Inspectorate for England is an executive agency of the Department for Levelling Up, Housing and Communities of the United Kingdom Government with responsibility for making decisions and providing recommendations and advice on a range of land use planning-related issues across England.
Point of Connection (PoC)	Where the connection point is to the National Grid network. The Grendon 400kV National Grid Substation is the point of connection for the Scheme.
Potential Development Areas	Specific locations or zones identified as suitable for building parts of the project, such as the solar panels, access roads, or other necessary infrastructure.
Preliminary Environmental Information Report (PEIR)	Preliminary Environmental Information is defined in the EIA Regulations as: 'information referred to in regulation 14(2) which – (a) has been compiled by the applicant; and (b) is reasonably required for the consultation bodies to develop and informed view of the likely significant environmental effects of the development (and of any associated development).
Principal Aquifer	These are layers of rock or drift deposits that have high intergranular and/or fracture permeability – meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifer.





Term	Definition
Receptor	A component of the natural or man-made environment (including people) that is affected by an impact.
Reference Time Interval, Tr	The specified interval over which an equivalent continuous A-weighted sound pressure level is determined.
Relevant Representation	A relevant representation is a summary of a person's view on an application, made in writing.
Scheduled Monument	A 'nationally important' archaeological site or historic building, given protection against unauthorised change and included in the Schedule of Monuments kept by the Secretary of State for Culture, Media and Sport. The protection given to scheduled monuments is given under the Ancient Monuments and Archaeological Areas Act 1979.
Setting	The surroundings within which a heritage asset is experienced and any element which contributes to the understanding of its significance.
Significant Observed Adverse Effect Level	This is the level of noise above which significant adverse effects on health and quality of life occur.
Solar Arrays	A term used to describe the land or Sites that accommodate the Solar PV modules and associated development.
Solar PV Mounting Structure	A solar PV panel mounting structure is the framework that securely holds solar panels in place, ensuring proper positioning for optimal sunlight capture and energy production, whether on rooftops, ground, poles, or other surfaces.
Solar PV Panel	Solar photovoltaic panel designed to convert solar irradiance to electrical energy.
Source Protection Zone (SPZ)	Source Protection Zones ("SPZ") 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 of 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.
Statements of Common Ground (SoCG)	A written statement containing factual information about the proposal which is the subject of the appeal that the appellant reasonably considers will not be disputed by the local planning authority.
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.
Substation	A substation is a part of an electrical generation, transmission, and distribution system. Substations transform voltage from high





Term	Definition
	<p>to low, or the reverse, or perform any of several other important functions. Between the generating station and consumer, electric power may flow through several substations at different voltage levels.</p> <p>The Scheme has variety of different substations at the following voltages: 400kV, 132kV and 33kV</p>
Switchgear	A combination of electrical disconnect switches, fuses or circuit breakers used to control, protect, and isolate electrical equipment.
Temporary Access Points	Short-term entry and exit locations established during the construction phase of a solar farm and its associated cable route. These points facilitate the movement of construction vehicles, equipment, and personnel and are removed or reinstated once construction is complete.
Temporary Construction Compounds	An area designated for temporary use during the construction phase of a project, such as a solar farm. It serves as a central hub for essential construction activities, logistics, and worker facilities.
Tesla (T)	Unit of measurement for the magnetic flux density of a magnetic field. Usually scaled to micro Tesla ( $\mu\text{T}$ ) for everyday applications
The Applicant	Green Hill Solar Farm Limited
The Cable Route Corridor	The area of land identified within which the trench or trenches and working width for the cable circuits, the cables themselves and associated cable ducts, will be sited. The Cable Route Corridor is approximately 50m wide for the extent of the Scheme.
The construction phase	Not capitalised – refers as a generic term to the site established, construction of infrastructure and solar panels.
The DCO Application	Abbreviated term for the application for the Development Consent Order. Used to refer to the application in general terms.
The decommissioning phase	Generic term to capture the phase restoring the land back to its original use – removal of infrastructure and panels from the site.
The operational phase	Note, not operation phase. This is for the 60 year period, post construction and before the decommissioning phase.
The Order Limits	The land shown on the Works Plans within which the Scheme can be carried out.
the Scheme	<p>The entire proposed development that will be applied for the Development Consent Order is referred to throughout the ES and documents.</p> <p>A nationally significant infrastructure project comprising a ground mounted solar photovoltaic generating station with a gross</p>



Term	Definition
	electrical capacity of over 50 megawatts and associated development. The Scheme will be known as “Green Hill Solar Farm”.
The Sites	The collective term for referring to all nine sites that form the main part of the Scheme.
Tracking Panels	Solar tracking panels, also known as solar trackers, are devices that move solar panels to follow the sun's path across the sky, maximizing sunlight exposure and energy generation.
Transformers	Transformers increase and decrease the voltage of the electricity.
Underground Cable Ducting	Underground ducting refers to the protective pipework through which essential utility pipes and cables are run underground to provide buildings with power, water and gas.
Visual effects	Effects on specific views and on the general visual amenity experienced by people.
Volt per metre (Vm-1)	Unit of measurement for the strength of an electric field. Usually scaled to kilovolts per meter (kVm-1) for measuring electric fields around electrical infrastructure.
Water Framework Directive (WFD)	The Water Framework Directive introduced a new system for monitoring and classifying the quality of surface and ground waters. The Directive requires that Environmental Objectives be set for all surface waters and groundwater to enable them to achieve Good Ecological Potential/Status by a defined date.
Works Plans	The plans submitted with the DCO Application known as the Works Plans and which delineate the Order limits for the Scheme.
Written Scheme of Investigation (WSI)	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 (ZOI)	An area established for the purposes of EIA in respect of a particular environmental topic over which the impacts of a particular project on receptors will be assessed. Zones of Influence are variable depending on the environmental matter being assessed.
Zone of Theoretical Visibility (ZTV)	A map, usually digitally produced, showing areas of land within which, the Scheme is theoretically visible, which are used to inform Landscape and Visual Impact Assessment



### 3 Abbreviations and Acronyms

**Table 3** sets out the abbreviations and acronyms applied through the Environmental Statement.

Term	Meaning
μT	Micro tesla, unit of measurement for magnetic flux density of magnetic fields, 1,000,000 times smaller than a tesla (T).
AADT	Annual Average Daily Traffic
AIS	Air Insulated Switchgear
AAI	Areas of Archaeological Importance
AC	Alternating current
AEP	Annual Exceedance Probability
ALC	Agricultural Land Classification
AMAAA	Ancient Monuments and Archaeological Areas Act 1979
AOD	Above Ordnance Datum
AONB	Areas of Outstanding Natural Beauty
APFP Regulations	Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009
AQMA	Air Quality Management Area
AQO	Air Quality Objective
ASA	Alternative Sites Assessment
BAP	Biodiversity Action Plan
BAT	Best Available Technique
BEIS	Department for Business, Energy and Industrial Strategy
BESS	Battery Energy Storage System
BGS	British Geological Survey
BMS	Battery Management System
BMV	Best and Most Versatile
BNL	Basic Noise Level
BPM	Best Practicable Means
BS	British Standard
CCRA	Climate Change Risk Assessment
CCS	Considerate Constructors Scheme
CCTV	Closed Circuit Television
CEMP	Construction Environmental Management Plan
CIEEM	Chartered Institute of Ecology and Environmental Management
CIfA	Chartered Institute for Archaeologists



Term	Meaning
CNP	Critical National Priority
COPA	Control of Pollution Act
COSHH	Control of Substances Hazardous to Health
CPRE	Campaign to Protect Rural England
CRC	Cable Route Corridor
CRMP	Construction Resource Management Plan
CSM	Conceptual Site Model
CTMP	Construction Traffic Management Plan
CWS	County Wildlife Site
DAS	Design and Access Statement
dB	Decibel
DBA	Desk Based Assessment
DC	Direct current
DCO	Development Consent Order
Defra	Department for Environment, Food and Rural Affairs
DEMP	Decommissioning Environmental Management Plan
DMMO	Definitive Map Modification Order
DMRB	Design Manual for Roads and Bridges
DRMP	Decommissioning Resource Management Plan
DSEAR	Dangerous Substances and Explosive Atmospheres Regulations 2002
dSMP	Detailed Soil Management Plan
DTMP	Decommissioning Traffic Management Plan
DWS	Drinking Water Standards
EA	Environment Agency
EC	European Commission
EclA	Ecological Impact Assessment
ECoW	Ecological Clerk of Works
EIA	Environmental Impact Assessment
END	Environmental Noise Directive
EPS	European Protected Species
ES	Environmental Statement
FAT	Factory Acceptance Testing
FLL	Functionally Linked Land



Term	Meaning
FMEA	Failure Mode and Effects Analysis
FRA	Flood Risk Assessment
GCN	Great Crested Newt
GHG	Greenhouse Gas
GI	Ground Investigations
GIS	Geographical Information System
GIS	Gas Insulated Switchgear (for GIS substation only)
GLVIA	Guidelines for Landscape and Visual Impact Assessment
GPR	Ground Penetrating Radar
GRA	Groundwater Risk Assessment
GRP	Glass Reinforced Plastic
GWP	Global Warming Potential
HAZOP/HAZIP	Hazard and Operability Analysis and Hazard Identification
HDD	Horizontal Directional Drilling
HDV	Heavy Duty Vehicles
HER	Historic Environment Record
HGV	Heavy Goods Vehicle
HIA	Heritage Impact Assessment
HLC	Historic Landscape Character
HSC	Hazardous Substances Consent
HSE	Health and Safety Executive
HVAC	Heating Ventilation and Cooling
IAN	Interim Advice Note
IAQM	Institute of Air Quality Management
ICCI	In-combination Climate Change
ICNIRP	International Commission on Non-Ionizing Radiation Protection
ICOMOS	International Council on Monuments and Sites
IEFs	Important Ecological Features
IEMA	Institute of Environmental Management and Assessment
JNCC	Joint Nature Conservation Committee
kVm <sup>-1</sup>	Kilovolt per metre, unit of measurement for electric fields, 1,000 times greater than volt per metre (Vm <sup>-1</sup> ).
L <sub>A10</sub>	A-weighted, sound level exceeded for 10% of the measurement period.



Term	Meaning
LA <sub>90</sub>	A-weighted, sound level exceeded for 90% of the measurement period.
L <sub>Aeq</sub>	A-weighted, equivalent sound level over the measurement period.
L <sub>AFmax</sub>	A-weighted, maximum sound level over the measurement period, measured on 'fast' response.
LAQM	Local Air Quality Management
LCA	Landscape Character Area
LCT	Landscape Character Type
LEMP	Landscape and Ecological Management Plan
LERC	Local Environmental Records Centres
LFP	Lithium Iron Phosphate
LGS	Local Geological Sites
LiDAR	Light Detection And Ranging
LLCA	Local Landscape Character Area
LNR	Local Nature Reserve
LOAEL	Lowest Observable Adverse Effect Level
LTCA	Local Townscape Character Area
LV	Limit Value
LVIA	Landscape and Visual Impact Assessment
L <sub>w</sub>	Sound Power Level
LWS	Local Wildlife Site
MCA	Mineral Consultation Areas
MKMLP	Milton Keynes Minerals Local Plan
MOD	Ministry of Defence
MPA	Mineral Planning Authority
MRN	Major Road Network
MSA	Mineral Safeguarding Areas
MSC	Mineral Consultation Areas
MT	Motorised Travellers
MtCO <sub>2e</sub>	Million Tonnes of carbon dioxide equivalent
MW	Megawatts
NBRC	Northamptonshire Biodiversity Records Centre
NCA	National Character Areas
NE DAS	Natural England Discretionary Advice Service
NETS	National Electricity Transmission System



Term	Meaning
NGESO	National Grid Electricity System Operator Limited
NHLE	National Heritage List for England
NIA	Noise Impact Area
NM&WLP	Northamptonshire Minerals and Waste Local Plan
NMC	Lithium Nickel Manganese Cobalt Oxide
NMP	National Mapping Programme
NMU	Non-Motorised Users
NNC	North Northamptonshire Council
NNR	National Nature Reserve
NOEL	No Observed Effect Level
NPPF	National Planning Policy Framework 2021
NPS	National Policy Statement
NRMM	Non-road Mobile Machinery
NSIP	Nationally Significant Infrastructure Project, as defined by the Planning Act 2008 (as amended)
NTS	Non-Technical Summary
NVC	National Vegetation Classification
OBSSMP	Outline Battery Storage Safety Management Plan
ODS	Outline Decommissioning Statement
OEMP	Operation Environmental Management Plan
OEP	Office for Environmental Protection
OOTMP	Outline Operational Traffic Management Plan
OS	Ordnance Survey
oSMP	outline Soil Management Plan
OUV	Outstanding Universal Value
PA 2008	Planning Act 2008
PEA	Preliminary Ecological Assessment
PEI	Preliminary Environmental Information
PEIR	Preliminary Environmental Information Report
PHE	Public Health England
POC	Point of Connection
PPE	Personal Protective Equipment
PPG	Planning Practice Guidance
PPP	Pollution Prevention Plan





Term	Meaning
PPV	Peak Particle Velocity
PRA	Preliminary Geo-Environmental Risk Assessment
PRoW	Public Right of Way
PWS	Private Water Supplies
RAF	Royal Air Force
RBMP	River Basin Management Plan
RCP	Representative Concentration Pathways
RHS	River Habitat Survey
RPA	Root Protection Area
RPG	Registered Park and Garden
RSPB	Royal Society for the Protection of Birds
RV	Representative Viewpoint
RVAA	Residential Visual Amenity Assessment
SAC	Special Areas of Conservation
SAMs	Scheduled Ancient Monuments
SAO	Study Area Only
SAT	Site Acceptance Testing
SLA	Special Landscape Area
SM	Scheduled Monument
SOAEL	Significant Observed Adverse Effect Level
SOCC	Statement of Community Consultation
SoCG	Statement of Common Ground
SoS	Secretary of State
SPA	Special Protection Areas
SPI	Species of Principal Importance
SPZ	Source Protection Zone
SQEP	Suitable Qualified and Experienced Persons
SRMP	Soil Resource Management Plan
SRN	Strategic Road Network
SSSI	Site of Special Scientific Interest
SuDS	Sustainable Drainage Strategy
SWMP	Site Waste Management Plan
TA	Transport Assessment
tCO <sub>2</sub> e	Tonnes of CO <sub>2</sub> equivalent



Term	Meaning
TPO	Tree Preservation Order
UAA	Utilised Agricultural Area
UK	United Kingdom
UNESCO	United Nations Educational, Scientific and Cultural Organisation
VP	Viewpoints
VR	Visual Receptor
WEEE	Waste from Electrical and Electronic Equipment
WFD	Water Framework Directive
WHO	World Health Organisation
WHS	World Heritage Site
WTR	Wildlife Trust Reserves
WTT	Well-to-tank
ZoI	Zone of Influence
ZTV	Zone of Theoretical Visibility
$\sigma$	Standard deviation, a measure of the spread or dispersal of a dataset