



OAKLANDS FARM SOLAR PARK

Applicant: Oaklands Farm Solar Ltd

Environmental Statement

Appendix 1.2 – Glossary and Abbreviations

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Oaklands Farm Solar Park - Environmental Statement Volume 3

Appendix 1.2: Glossary and Abbreviations

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Glossary and Abbreviations

Glossary

Term	Meaning/Definition
The Act	The Planning Act 2008
Agricultural Land Classification (ALC)	The system devised and introduced to classify agricultural land according to the extent to which its physical or chemical characteristics impose long-term limitations on agricultural use. Land is graded between 1 (excellent quality) and 5 (poor quality).
Air Quality Management Area (AQMA)	An area declared by a local authority which has been determined will exceed the relevant air quality strategy objective for the protection of human health.
The Applicant	Oaklands Farm Solar Limited
Application	The application for a DCO for the proposed scheme defined in Chapter 4 of the ES.
Appropriate Assessment	An assessment of the effects of a plan or project on the network of European sites of nature conservation significance in accordance with Habitats Regulations 2017. The assessment focuses on the plan or project's implications for the site and any potential adverse impacts on its integrity.
Area of Outstanding Natural Beauty (otherwise known as National Landscapes)	Areas of outstanding natural beauty (AONBs) are areas of countryside in England and Wales outside national parks which are designated in recognition of their significant landscape value.
Background sound level (L ₉₀ / L _{A90})	The sound level exceeded for 90% of a specified time period. It is used to represent the background sound level.

Term	Meaning/Definition
Battery Energy Storage System (BESS)	Devices that enable energy from renewables, like solar and wind, to be stored and then released when the power is needed most.
Best and Most Versatile agricultural land (BMV)	Land defined as grades 1, 2 and 3a of the Agricultural Land Classification. This land is considered to be the most flexible, productive and efficient and is most capable of delivering crops for food and non-food uses.
Competent Authority	The public body, statutory undertaker, government department, or public office-holder that must carry out a Habitats Regulations Assessment (HRA), to test if a plan or project proposal could significantly harm the designated features of a European site with the Habitat Regulations..
Conservation status	The state of a species or habitat including for example, extent, abundance, distribution and their trends.
Construction Environmental Management Plan (CEMP)	The CEMP provides the framework for recording environmental risks, commitments and other environmental constraints during construction and clearly identifies the structures and processes that will be used to manage and control these aspects. An Outline CEMP is presented in Appendix 4.3.
Construction phase	The process of building the development alongside other associated activities such as site clearance, landscaping, demolition or connection to the power grid.
Construction Traffic Management Plan (CTMP)	A document summarising the construction impact of the proposed development on the surrounding highway network, with a specific action plan to avoid, reduce or mitigate issues. Referred to as the Outline CTMP in the ES (presented in Appendix 10.1).

Term	Meaning/Definition
Cumulative effects	The likely effects that the Proposed Development may have in combination with other relevant developments in the vicinity of the Site.
Decibel (dB / dBA)	Used to quantify the sound pressure level relative to a pressure of 2×10^{-5} Pa. Environmental noise is normally described in terms of the single figure A-weighted level (denoted dBA), which corresponds to the frequency sensitivity of the human ear.
Decommissioning phase	Last phase in the project life which includes the shutting down, demolition, removal from site and recycling of materials in line with DCO requirements.
Derbyshire County Council (DCC)	The county council and highways authority for Derbyshire County.
Development Consent Order (DCO)	The consent for a NSIP required under the Act.
East Staffordshire District Council (ESDC)	The local planning authority for East Staffordshire District.
Environment Agency	The non-departmental body created in 1995 and sponsored by the UK government's Department for Environment, Food and Rural Affairs charged with the protection and enhancement of the environment of England.
Electricity Act	The Electricity Act 1989
Environmental Impact Assessment (EIA)	The statutory process through which the likely significant effects of a development project on the environment are identified and assessed, in accordance with the EIA Regulations.
EIA Regulations	The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017

Term	Meaning/Definition
Environmental Statement (ES)	A statutory document which reports the EIA process, produced in accordance with the EIA Regulations.
Equivalent continuous sound level (L_{eq} / L_{Aeq})	The energy average of the sound level over a specified time period.
Examining Authority (ExA)	The person(s) appointed by the Secretary of State (SoS) to assess the DCO application and make a recommendation to the SoS.
Fairfield Farm	The area of the Site between Park Farm and Rosliston Road, as indicated on ES Figure 1.3: Areas of the Site
Flood Risk Assessment (FRA)	A report which assesses the potential for flood water to impact the proposed development and provide suitable mitigation to ensure that the proposed development remains safe and operational throughout its design life.
Glare	A continuous source of excessive brightness experienced by a stationary observer located in the path of reflected sunlight from the face of the panel.
Glint	A momentary flash of light that may be produced as a direct reflection of the sun in the solar panel.
Grid Connection Corridor	The areas of search within which the cable connecting the Proposed Development's substation to the Point of Connection at National Grid's Drakelow substation will be located.
Habitat Regulations 2017	The Conservation of Habitats and Species Regulations 2017
Harmonic Filter	Harmonic filters reduce harmonic currents flowing in a power system and help improve the quality of the electricity supplied.
Historic England	The Historic Buildings and Monuments Commission for England, the executive non-departmental public body created by the National Heritage Act 1983 to: secure the preservation of

Term	Meaning/Definition
	<p>ancient monuments and historic buildings situated in England; promote the preservation and enhancement of the character and appearance of conservation areas situated in England; and promote the public's enjoyment of, and advance their knowledge of, ancient monuments and historic buildings situated in England and their preservation.</p>
Host Authority	<p>Host authorities within which the Site is situated. See entries for Derbyshire County Council (DCC) and South Derbyshire County Council (SDCC).</p>
Inverter	<p>An electrical converter which converts the variable direct current (DC) output of a photovoltaic (PV) solar panel into a utility frequency alternating current (AC) that can be fed into a commercial electrical grid.</p>
Lichfield District Council (LDC)	<p>The local planning authority for Lichfield District.</p>
Local Planning Authority (LPA)	<p>The local authority or council that is empowered by law to exercise planning functions.</p>
Local Wildlife Sites (LWS)	<p>Areas of land that are determined, locally, to be important for the preservation of wildlife. They are designated as non-statutory and protected by local planning systems.</p>
Mitigation	<p>Process of reducing the severity of environmental impacts of the development starting from the design phase through to the operational phase.</p>
National Forest	<p>A scheme to reforest 200 square miles of land to mixed habitat forest run by the National Forest Company</p>
National Highways	<p>The strategic highway company responsible for the operation, maintenance and improvement of England's trunk roads and</p>

Term	Meaning/Definition
	motorways. Formerly the Highways Agency and Highways England.
National Planning Policy Framework (NPPF)	A planning framework which sets out the Government's planning policies for planning applications under the Town and Country Planning Act 1990 in England and how these are expected to be applied.
National Policy Statement (NPS)	Statements prepared and designated by the Secretary of State under the Act, which establish national policy for NSIPs, including energy, transport and water, wastewater, waste and against which applications for DCOs are assessed.
Nationally Significant Infrastructure Project (NSIP)	A type of project listed in the Act, which must be consented by a DCO.
Natural England	The executive non-departmental public body constituted under the Natural Environment and Rural Communities Act 2006 to ensure that the natural environment is conserved, enhanced and managed for the benefit of present and future generations, thereby contributing to sustainable development.
Non-Technical Summary (NTS)	A document that provides a description of the EIA process and its findings in a way that is easy to read by the general public.
Oaklands Farm area	The area of the Site south of Rosliston Road as indicated on ES Figure 1.3: Areas of the Site.
Oaklands Farm Solar Park	The official name of the Proposed Development.
Operational phase	This includes the running, monitoring and maintenance of the solar farm in order to deliver the projected energy output.

Term	Meaning/Definition
Overhead line	A structure made up of electric cables suspended by wooden poles or steel lattice towers, used for electricity transmission and distribution.
Park Farm area	The area of the Site north of Rosliston Road and south of Walton Road, as indicated on ES Figure 1.3: Areas of the Site.
Photovoltaic (PV) panel	Panel for the direct conversion of light into electric power using semiconducting materials such as silicon.
Planning Practice Guidance (PPG)	An online resource of detailed policy guidance provided by the Ministry of Housing, Communities and Local Government.
Planning Inspectorate (PINS)	The agency responsible for operating the planning process for NSIPs on behalf of the SoS.
Preliminary Environmental Information (PEI)	Preliminary environmental about the scheme provided for the purposes of consultation in accordance with the Act and the EIA Regulations and as set out in the PEIR.
Preliminary Environmental Information Report (PEIR)	The Report which documents the PEI.
Proposed Development	The Oaklands Farm Solar Park as described in Chapter 4 of the ES.
Proposed Development's substation	Substation located within the Oaklands Farm area where the voltage will be increased up to 132kV for transmission to the National Grid.
Public Rights of Way (PRoW)	A way over which the public have a right to pass and repass. The route may be used on foot, on (or leading) a horse, on a pedal cycle or with a motor vehicle, depending on its status. Although the land may be owned by a private individual, the public may still gain access across that land along a specific route.

Term	Meaning/Definition
Rating sound level ($L_{Ar,Tr}$)	The specific sound level at the assessment position plus any adjustment for the characteristic features of the sound, over a reference time interval (T_r).
Reasonable alternatives	Options that can be easily achieved after taking into cost and other considerations relevant to the project, while maintaining the basic purpose of the development.
Residual effect	Effects taking into account the application of mitigation.
Rochdale envelope	Where the nature of the Proposed Development means that some details of the whole project have not been confirmed (for instance the precise dimensions of structures) when the application is submitted, and flexibility is sought to address uncertainty.
Scoping	An EIA process that defines the environmental impacts that would be assessed and reported in the environmental statement.
Site	The land shown on the Works Plans within which the Proposed Development can be carried out (also known as the Order Limits)
Site of Specific Scientific Interest (SSSI)	A SSSI is a conservation designation notified under the Wildlife and Countryside Act 1981, denoting a protected area in the United Kingdom, designated due to special interest in its flora, fauna, geological or physiographical features. They are protected by law to conserve their wildlife or geology.
Solar Reflections	An umbrella term for glint and glare.
Sound and Noise	Consideration to the use of the words “sound” and “noise” follows these definitions: Sound can be measured using a sound level meter or other measuring device. Noise is related to the

Term	Meaning/Definition
	human response and may be described as unwanted sound, or sound that is described as unwanted or disruptive.
South Derbyshire District Council (SDDC)	The local planning authority for South Derbyshire District.
Special Areas of Conservation (SAC)	Formally designated sites by the government of each country in the UK to protect one or more special habitats and species under the Habitat Regulations..
Special Protection Areas (SPA)	They are protected areas for birds in the UK, forming the UK's national site network along with SACs.
Specific sound level ($L_{s,Tr}$)	The equivalent continuous sound level at the assessment position produced by the specific sound source over a reference time interval (T_r).
Statutory consultees	Organisations or bodies which are legally required to be consulted.
Strategic Road Network (SRN)	The network of motorways and trunk roads in England.
Study area	An area of land that has been defined in each topic chapter of the ES within which the assessment is focused.
Sustainable Urban Drainage Systems (SuDS)	SuDS encompass a range of techniques for holistically managing water runoff on Site to reduce the quantity, and increase the quality, of surface water that drains into from the proposed development. SuDS should mimic natural systems, and differs from traditional drainage in aiming to manage rain close to where it falls.
Targeted consultation	Undertaken between 9 th March and 21 st April 2023 to consult on access locations and amendments to the Site layout

Term	Meaning/Definition
Temporary Construction Haul Road	A temporary access track running from Park Farm to Rosliston Road to allow the movement of vehicles (including heavy goods vehicles) within the Site avoiding use of local roads where possible.
Traffic Management Group (TMG)	A group of key stakeholders who will meet regularly to discuss and review the ongoing effect of the CTMP and suitably mitigate the traffic impacts of the proposed development.
Transport Coordinator (TCO)	Responsible for monitoring the CTMP and part of the TMG. Will oversee and resolve any ongoing issues through additional mitigations if necessary.
Underground cable	Cables used for transmission of electric power designed to be buried in place of overhead cables.
Zones of Theoretical Visibility (ZTV)	Computer-generated tool to identify the likely (or theoretical) extent of visibility of a development.

Abbreviations

Abbreviation	Description
AADT	Average Annualised Daily Traffic
AAWT	Average Annualised Weekly Traffic
AC	Alternating Current
ALC	Agricultural Land Classification
AOD	Above Ordnance Datum
AONB	Area of Outstanding Natural Beauty
AQMA	Air Quality Management Area
AMES	Areas of Multiple Environmental Sensitivity
ASR	Air Quality Annual Status Report
ATC	Automated Traffic Count
ATC	Air Traffic Control
AVO	Acoustics Ventilation and Overheating
BGS	British Geological Survey
BMV	Best and Most Versatile agricultural land
BNG	Biodiversity Net Gain
BSI	British Standards Institution
BSSS	British Society of Soil Science
CCS	Considerate Constructors Scheme
CEMP	Construction Environmental Management Plan
CIEEM	Chartered Institute of Ecology and Environmental Management

Abbreviation	Description
CIfA	Chartered Institute for Archaeologists
CLVIA	Cumulative Landscape and Visual Impact Assessment
CO ₂	Carbon Dioxide
CRoW	Countryside and Rights of Way
CRTN	Calculation of Road Traffic Noise
CTMP	Construction Traffic Management Plan
DEMP	Decommissioning Environmental Management Plan
dB / dBA	Decibel
DBRC	Derbyshire Biological Records Centre
DC	Direct Current
DCO	Development Consent Order
DCC	Derbyshire County Council
DCLG	Department for Communities and Local Government
DECC	Department for Energy and Climate Change
DEFRA	Department for Environment, Food and Rural Affairs
DfT	Department for Transport
DMRB	Design Manual for Roads and Bridges
EA	Environment Agency
EclA	Ecological Impact Assessment
ECoW	Ecological Clerks of Works
EEA	European Economic Area

Abbreviation	Description
EfW	Energy from Waste
EIA	Environmental Impact Assessment
EMFs	Electromagnetic Fields
EPUK	Environmental Protection UK
ES	Environmental Statement
ESDC	East Staffordshire District Council
FIQ	Farm Impact Questionnaire
FRA	Flood Risk Assessment
FTE	Full Time Equivalent
GCN	Great Crested Newt
GHGs	Greenhouse Gases
GLVIA3	Guidelines for Landscape and Visual Impact Assessment, 3 rd Edition
GVA	Gross Value Added
HDV	Heavy Duty Vehicles
HEA	Historic Environment Assessment
HER	Historic Environment Record
HGV	Heavy Goods Vehicle
HIA	Health Impact Assessment
HSE	Health and Safety Executive
HUDU	Healthy Urban Development Unit
ICNIRP	International Commission on Non-Ionizing Radiation Protection

Abbreviation	Description
IEMA	Institute of Environmental Management and Assessment
IHBC	Institute of Historic Building Conservation
IEMA	Institute of Environmental Management and Assessment
IAQM	Institute of Air Quality Management
IOA	Institute of Acoustics
JNCC	Joint Nature Conservation Committee
kV	Kilovolt
LCA	Life Cycle Analysis
LCRM	Land Contamination Risk Management
LCTs	Landscape Character Types
LDC	Lichfield District Council
LEMP	Landscape and Ecological Management Plan
LGV	Light Goods Vehicle
LLFA	Lead Local Flood Authority
LOAEL	Lowest Observed Adverse Effect Level
LPA	Local Planning Authority
LQ	Location Quotient
LVIA	Landscape and Visual Impact Assessment
LWS	Local Wildlife Sites
MCA	Minerals Consultation Area
MRN	Major Road Network

Abbreviation	Description
MV	Medium Voltage
MW	Megawatts
NCA	National Character Areas
NE	Natural England
NGED	National Grid Electricity Distribution
NGET	National Grid Electricity Transmission
NHLE	National Heritage List for England
NOEL	No Observed Effect Level
NPPF	National Planning Policy Framework
NPS	National Policy Statement
NPSE	Noise Policy Statement for England
NSIP	Nationally Significant Infrastructure Project
NTEM	National Trip End Model
NTS	Non-Technical Summary
OBSSMP	Outline Battery Storage Safety Management Plan
OEMP	Operation Environmental Management Plan
OHL	Overhead Line
O&M	Operation and Maintenance
ONS	Office of National Statistics
OS	Ordnance Survey
oSMP	Outline Soil Management Plan

Abbreviation	Description
PAS	Portable Antiquities Scheme
PEI	Preliminary Environmental Information
PEIR	Preliminary Environmental Information Report
PIC	Personal Injury Collision
PINS	The Planning Inspectorate
PPE	Personal Protective Equipment
PV	Solar Photovoltaic
ROWIP	Right of Way Improvement Plans
RVAA	Residential Visual Amenity Assessment
SAC	Special Areas of Conservation
SDDC	South Derbyshire District Council
SIS	Spectrum Information System
SOAEL	Significant Observed Adverse Effect Level
SOCC	Statement of Community Consultation
SPA	Special Protection Areas
SRN	Strategic Road Network
SSSI	Sites of Special Scientific Interest
SuDS	Sustainable Urban Drainage Systems
SWMP	Site Waste Management Plan
TCO	Transport Coordinator
tCO ₂	Tonnes of Carbon Dioxide Equivalent

Abbreviation	Description
TEMPro	Trip End Model Presentation Program
TMG	Traffic Management Group
UKCP18	UK Climate Change Projections 2018
VP	Viewpoint
WBCSD	World Business Council For Sustainable Development
WEEE	Waste Electrical and Electronic Equipment
WFD	Water Framework Directive
WHO	World Health Organisation
WTT	Well-to-tank emissions
ZTV	Zone of Theoretical Visibility