



Longfield Solar Farm

Environmental Statement PINS Ref: EN010118

Volume 1

Chapter 0: Table of Contents, Glossary and Abbreviations

Document Reference EN010118/APP/6.1

Revision Number: 1.0

February 2022

Longfield Solar Energy Farm Ltd

APFP Regulation 5(2)(a)

Planning Act 2008

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

Quality information

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ES Volume 4 [EN010118/APP/6.4]: Environmental Statement Non-Technical Summary

Glossary

<i>Term</i>	<i>Description</i>	<i>Work No.</i>
Applicant	Longfield Solar Energy Farm Ltd.	
Application	The application for a DCO submitted by the Applicant for the Scheme.	
The Scheme	<p>Longfield Solar Farm - comprising the construction, operation and maintenance, and decommissioning of a solar photovoltaic (PV) array electricity generating facility and energy storage facility with a total capacity exceeding 50 megawatts (MW) and export connection to the National Grid. The Scheme will be located within the Order limits and is the subject of the Application.</p> <p>The details of the Scheme are described in Chapter 2 of this Environmental Statement and Schedule 1 of the draft DCO submitted with the Application.</p> <p>The Scheme is also known as “Longfield Solar Farm”.</p>	

Project Geographical Zones Terminology

Ancillary Infrastructure	Works within Work No. 6 including Low Voltage Distribution Cables, Primary Access Tracks, [Secondary Access Tracks and other means of access including permissive paths], means of enclosure and boundary treatment, security and monitoring infrastructure, landscaping and biodiversity measures including planting, drainage and irrigation infrastructure, signage, earthworks, temporary construction compounds, works to divert and underground existing electrical overhead lines, and other associated works	Work No.6
Ancillary Infrastructure Area	The areas within the Solar Farm Site, as shown as Work No. 6 on the Works Plans, which will contain the Ancillary Infrastructure	
Battery Energy Storage System (BESS) Compound	The area within the Solar Farm Site which will contain the BESS, inverters, transformers and switchgear, Low Voltage Distribution Cables, some Primary Access Tracks, fencing and other associated works. The BESS would be delivered in two phases.	Work No. 2 (first phase Work No. 2A, second phase Work No. 2B) Work No. 6
Bulls Lodge Substation Site	The site within the Order limits located at the existing Bulls Lodge 400kV Substation. The Scheme includes works for an extension to the Bulls Lodge Substation which will be carried out within this area.	Work No. 5
Grid Connection Route	The proposed grid connection route is within the Order limits, connecting the Solar Farm Site to the Bulls Lodge Substation Site. As part of the Scheme the Grid Connection Cables, other associated cables, Jointing Pits and other works associated with cable laying will be located within this area.	Work No. 4A
Habitat Management Areas	Areas of habitat management comprising landscape and biodiversity enhancement measures; habitat creation and management, including earthworks,	Work No. 10

	landscaping, means of enclosure, and the laying and construction of drainage infrastructure.	
Order limits	The land shown on the Works Plans within which the Scheme can be carried out.	
Permissive Paths	A new recreational informal path signed as permissive that the landowner allows the public to use for the life of the Scheme.	
Potential Developable Area (PDA)	Parcels of land within the Solar PV Array Works Area which are numbered to locate the parcel within the Scheme as shown on the Works Plans. Numbered 1-31, excluding 24 & 25.	Work No. 1
Site Access Works	Works to facilitate access to Work Nos. 1 to 8 and 10 including: <ul style="list-style-type: none"> • Creation of accesses from the public highway; • Creation of visibility splays; and • Works to widen and surface the public highway 	Work No. 9
Solar PV Array Works Area	The area located within the Solar Farm Site and which will be the location for the PV Arrays, Balance of Solar System (BoSS) Plant, solar Stations, Secondary Access Tracks, some Low Voltage Distribution Cables and associated works.	Work No.1 Work No. 6
Temporary construction laydown areas	The temporary construction laydown areas will comprise of: <ul style="list-style-type: none"> - Work No. 4B: temporary construction laydown areas along the Grid Connection Route; - Work No. 6: secondary temporary construction compounds, both within the permanent work area and outside the permanent work area on the Solar Farm Site; - Work No. 7A: a main temporary construction laydown area on the Solar Farm Site; - Work No. 7B: a temporary construction laydown area in connection with Work No. 5 (the Bulls Lodge Substation Extension) and a new temporary access from the existing private road to the temporary compound. <p>The temporary compounds within Work No. 7 would include: areas of hardstanding; car parking; site and welfare offices, canteens and workshops; storage for materials and equipment; storage and waste skips; an area for download and turning; security infrastructure, including cameras, perimeter fencing, and lighting; site drainage and waste management infrastructure; electricity, water waste water and telecommunications connections.</p>	Work Nos. 4B, 6, 7A and 7B
The Solar Farm Site	The area within the Order limits comprised of the Solar PV Array Works Area, the Longfield Substation, the BESS Compound, the Ancillary Infrastructure Area, Habitat Management Areas and the Ancillary Building.	Work Nos. 1, 2, 3, 6, 8, 10 (note parts of Work Nos. 4 and 9 are also within the Solar Farm Site)

Project Components Terminology

Ancillary Building	The office, warehouse and plant storage building comprising office and welfare facilities; storage facilities; waste skips; parking areas; and a warehouse building for the storage of spare parts and plant.	Work No. 8
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Balance of Solar System (BoSS) Plant	<p>Inverters, transformers and switch gear and would be either-</p> <ul style="list-style-type: none"> (a) “Solar Stations” being a station comprising centralised inverters, transformers and switch gear with each component for each solar station either— <ul style="list-style-type: none"> (i) a “Solar Station” located outside, with a concrete foundation slab or placed on metal skids for each of the inverters and transformers and switch gear; or (ii) housed together within a container sitting on a concrete foundation slab or placed on metal skids; or (b) string inverters attached either to mounting structures or a ground mounted frame, switchgear and transformers on a concrete foundation slab or placed on metal skids; <p>The BoSS Plant will be located within the Solar PV Array Works Area.</p>	Work No. 1
Battery Energy Storage System (BESS)	Battery storage located within the BESS Compound.	Work No. 2
Bulls Lodge Substation	The existing 400kV substation owned and operated by National Grid Electricity Transmission.	
Bulls Lodge Substation Extension	<p>The works to the Bulls Lodge Substation which will include:</p> <p>Work No. 5A - an electricity switching station including-</p> <ul style="list-style-type: none"> (iii) a main substation building to include an indoor gas insulated switchgear (GIS) switch hall, ancillary plant rooms, amenities block, storage and workshop units; (iv) outdoor air insulated (AIS) switchgear, GIS busbars, two overhead line gantries and associated foundations and structures; (v) a new permanent access road from the existing private road including a new bellmouth entrance; (vi) internal roadways and footpaths; (vii) earthworks; (viii) car parking area; (ix) lighting columns and lighting; (x) perimeter fencing and security cameras; (xi) drainage system and a new drainage outfall to Boreham Brook; (xii) new connections from pylons 4VB061A and 4VB061B including pylon modifications; and <p>Work No. 5B –temporary overhead line alterations including two new temporary pylons and realignment of the existing 400kV overhead line.</p>	Work No. 5
Grid Connection Cables	The buried 400kV cables connecting the Longfield Substation to the Bulls Lodge Substation Extension. Located within the Grid Connection Route.	Work No. 4A
Jointing Pit	Underground structures constructed at regular intervals along the Grid Connection Cables to join sections of cable and facilitate installation of the	Work No. 4A

	cables into the buried ducts. Located within the Grid Connection Route.	
Longfield Substation	The substation located within the Solar Farm Site. The Longfield Substation will be comprised of transformers and switchgear. It will be connected to the PV Arrays and BESS via the Low Voltage Distribution Cables in order to collect electricity (at 33kV) from those components of the Scheme. The Longfield Substation will convert the electricity to 400kV for onward transmission to the Bulls Lodge Substation Extension via the Grid Connection Cables.	Work No. 3
Low Voltage Distribution Cables	33 kV cables, which transmit electricity from the Solar Stations or the BESS to the Longfield Substation, located within the Solar Farm Site.	Work No. 6
Primary Access Tracks	The roads within the Solar Farm Site constructed to provide primary access around the Solar Farm Site.	Work No. 6
PV Array	A PV Array is a distinct grouping of PV Tables. The PV Arrays are arranged within the Solar PV Array Works Area.	Work No. 1
PV Mounting Structure	The metal frames onto which the PV Panels are attached.	Work No. 1
PV Panel	A panel comprising a grouping of photovoltaic (PV) cells connected to each other and set within a single physical frame. The PV Panel is attached to a PV Mounting Structure. Also referred to as a PV Module.	Work No. 1
PV Tables	PV Panels mounted onto the PV Mounting Structure, forming tables, which are then set out in rows.	Work No. 1
Secondary Access Tracks	The roads constructed to provide access within the Solar PV Array Works Area which will consist of a layer of rock fill placed on a suitable underlying layer.	Work No. 6

Abbreviations and Acronyms

<i>Term</i>	<i>Meaning</i>
AA	Appropriate Assessment
AADT	Annual Average Daily Traffic
AC	Alternating current
AEP	Annual Exceedance Probability
ALC	Agricultural Land Classification
AGL	Above Ground Level
AOD	Above Ordnance Datum
AONB	Area of Outstanding Natural Beauty
APFP Regulations	Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009
AQMA	Air Quality Management Area
BAP	Biodiversity Action Plan
BEIS	Department for Business, Energy and Industrial Strategy
BESS	Battery Energy Storage System
BGS	British Geological Survey
BMV	Best and Most Versatile
BNL	Basic Noise Level
BoSS	Balance of Solar System
BPM	Best Practicable Means
BS	British Standard
CAFE	Clean Air for Europe
CCRA	Climate Change Risk Assessment
CEMP	Construction Environmental Management Plan
CIEEM	Chartered Institute of Ecology and Environmental Management
CJEU	The Court of Justice of the European Union
CLR	Contaminated Land Report
COPA	Control of Pollution Act
COSHH	Control of Substances Hazardous to Health
CPRE	Campaign to Protect Rural England
CRMP	Construction Resource Management Plan
CRoW	Countryside and Rights of Way Act 2000
CSM	Conceptual Site Model
CTMP	Construction Traffic Management Plan
CVPR	Chelmer Valley Park & Ride
CWS	County Wildlife Site
dB	Decibel
DC	Direct current

DCLG	Department for Communities and Local Government
DCO	Development Consent Order
DEFRA	Department for Environment, Food and Rural Affairs
DfT	Department for Transport
DMRB	Design Manual for Roads and Bridges
DRMB	Decommissioning Resource Management Plan
DWS	Drinking Water Standards
EA	Environment Agency
ECC	Essex County Council
EciA	Ecological Impact Assessment
EIA	Environmental Impact Assessment
END	Environmental Noise Directive
EPS	European Protected Species
ES	Environmental Statement
EU	European Union
FRA	Flood Risk Assessment
FTE	Full-time employment
GCN	Great Crested Newt
GHG	Greenhouse Gas
GI	Ground Investigations
GIS	Geographical Information System
GLVIA	Guidelines for Landscape and Visual Impact Assessment
GPR	Ground Penetrating Radar
GRA	Groundwater Risk Assessment
GRP	Glass Reinforced Plastic
GVA	Gross Value Added
Ha or ha	Hectare
HCA	Homes and Communities Agency
HDD	Horizontal Directional Drilling
HDV	Heavy Duty Vehicles
HER	Historic Environment Record
HGV	Heavy Goods Vehicle
HRA	Habitats Regulations Assessment
HSC	Hazardous Substances Consent
HSE	Health and Safety Executive
HSE	Health and Safety Executive
HVAC	Heating, ventilation and air conditioning
IAN	Interim Advice Note
IAQM	Institute of Air Quality Management
IEMA	Institute of Environmental Management and Assessment

IUCN	International Union for Conservation of Nature
JNCC	Joint Nature Conservation Committee
Km	Kilometres
kV	Kilovolt
LA10	A-weighted, sound level exceeded for 10% of the measurement period.
LA90	A-weighted, sound level exceeded for 90% of the measurement period.
LAeq	A-weighted, equivalent sound level over the measurement period.
LAFmax	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 Ecology Management Plan
LGS	Local Geological Sites
LiDAR	Light Detection And Ranging
LLCA	Local Landscape Character Area
LNR	Local Nature Reserve
LOAEL	Lowest Observable Adverse Effect Level
LSOAs)	Lower Layer Super Output Areas
LTCA	Local Townscape Character Area
LV	Limit Value
LVIA	Landscape and Visual Impact Assessment
L _w	Sound Power Level
MAFF	Ministry of Agriculture, Fisheries and Food
MCA	Mineral Consultation Areas
MHCLG	Ministry of Housing, Communities and Local Government
MSA	Mineral Safeguarding Areas
MSOAs	Middle Layer Super Output Areas
MT	Motorised Travellers
MW	Megawatts
NCA	National Character Areas
NERC	Natural Environment and Rural Communities
NHLE	National Heritage List for England
NIA	Noise Impact Area
NMU	Non-Motorised Users
NNR	National Nature Reserve
NNR	National Nature Reserve
NOEL	No Observed Effect Level
Non-motorised Users (NMUs)	Pedestrians, cyclists, equestrians.

NPPF	National Planning Policy Framework 2018
NPS	National Policy Statement. National Policy Statements are produced by government. They comprise the government's central policy documents for the development of nationally significant infrastructure.
NRMM	Non-road Mobile Machinery
NSIP	Nationally Significant Infrastructure Project
NTS	Non-Technical Summary
NVC	National Vegetation Classification
ODP	Outline Design Principles
OCEMP	Outline Construction Environmental Management Plan
OEMP	Operation Environmental Management Plan
OHL	Overhead lines
OLEMP	Outline Landscape and Ecology Management Plan
ONS	Office for National Statistics
OOEMP	Outline Operation Environmental Management Plan
OS	Ordnance Survey
OUV	Outstanding Universal Value
PA 2008	Planning Act 2008
PCS	Power Conversion Systems
PDA	Potential Developable Area
PEI	Preliminary Environmental Information
PERA	Preliminary Environmental Risk Assessment
PHE	Public Health England
PiR	Passive Infra Red
POC	Point of Connection
PPE	Personal Protective Equipment
PPG	Planning Practice Guidance
PPS	Planning Policy Statement
PPV	Peak Particle Velocity
PRoW	Public Right of Way
PV	Photovoltaic
PWS	Private Water Supplies
RBMP	River Basin Management Plan
RHS	River Habitat Survey
RPG	Registered Park and Garden
RV	Representative Viewpoint
SAC	Special Area of Conservation
SCI	Sites of Community Importance
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
SOUV	Statement of Outstanding Universal Value
SPA	Special Protection Area
SPI	Species of Principal Importance
SPZ	Source Protection Zone
SSSI	Site of Special Scientific Interest
SuDS	Sustainable Drainage Systems
TA	Transport Assessment
TPO	Tree Preservation Order
TS	Transport Statement
TTM	Temporary Traffic Management
UK	United Kingdom
UNECE	United Nations Economic Commission for Europe
UNESCO	United Nations Educational, Scientific and Cultural Organisation
VP	Viewpoints
VR	Visual Receptor
WCA	Wildlife and Countryside Act
WFD	Water Framework Directive
WHO	World Health Organisation
WHS	World Heritage Site
ZTV	Zone of Theoretical Visibility