THE DROVES
SOLAR FARM

The Droves Solar Farm

Commitments Register

Prepared by: LDA Design
Date: November 2025
PINS reference: EN0110013
Document reference: APP/6.5 (Original)
APFP Regulation Reg 5(2)(a)
Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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1 Commitments Register

1.1 Introduction

1.1.1 **Table 1-1** of this Commitments Register lists the environmental mitigation measures to be adopted during the construction, operation and maintenance, and decommissioning phases of The Droves Solar Farm (the Scheme), and identifies where that mitigation is secured in the **draft Development Consent Order (DCO) [APP/3.1]**.

1.1.2 The Commitments Register is not a secured document. It is a register, intended to allow stakeholders to track commitments from the Environmental Statement chapters through to the relevant secured documents.

1.1.3 Some of the requirements in Schedule 2 of the **draft DCO [APP/3.1]** secure the following plans, the outlines of which are submitted with the DCO Application:

- Construction Environmental Management Plan (CEMP)
- Operational Environmental Management Plan (OEMP)
- Decommissioning Strategy (DS)
- Landscape Ecological Management Plan (LEMP)
- Construction Traffic Management Plan (CTMP)
- Operational Traffic Management Plan (OTMP)
- Soil Management Plan (SMP)
- Employment Skills and Supply Chain Strategy (ESSCS)
- Battery Safety Management Plan (BSMP); and
- Public Right of Way and Permissive Path Management Plan (PRoWPPMP).

1.1.4 These plans are all securing mechanisms. Other securing mechanisms include the **Works Plan [APP/2.3]** and the requirement for approval of detailed design which secures the **Design Principles, Parameters and Commitments [APP/5.8]**.

Table 1-1 Environmental Statement Commitments Register

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
Chapter 6: Landscape and Visual	Construction	The following elements comprise key landscape and visual embedded mitigation measures during the construction phase: • Temporary lighting during construction may be required to enable safe working during in the hours of darkness will be designed as far as reasonably practical to avoid light spill onto areas beyond the Order limits. Construction lighting will include directional fittings and will be restricted to the construction working hours as set out in **ES Chapter 5: The Scheme [APP/6.1]**. • The planting, management and monitoring of landscaping and ecological mitigation and enhancement habitats during construction. • Implementation of buffers and offsets to guide construction work,	Embedded	**outline Construction Environmental Management Plan (oCEMP) [APP/7.6]** **outline Landscape and Ecological Management Plan (oLEMP) [APP/7.11]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		ensuring valued landscape features and habitats are protected. • A pre-construction tree survey would be required prior to starting construction works to re-establish the baseline. This survey would inform the tree protection zones to be applied during construction. Site hoarding and construction exclusion zones would be introduced around retained vegetation in accordance with the requirements of BS 5837:2012 'Trees in relation to design, demolition and construction'. An approved Arboricultural Method Statement (AMS) would be adopted incorporating best practice guidance set out in British Standard 5837:2012 Trees in Relation to Design, Demolition and Construction which would ensure retained trees and other vegetation are not adversely affected during the construction process. • The use of visual screening, such as hoardings, would be implemented			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		for more sensitive visual receptors in proximity to the Site, including residential and PRoW receptors that have the greatest potential to be affected by the Scheme. • Ensuring a tidy and neat working environment and covering stockpiles in accordance with best practice measures; and • Construction works which create dust would be kept to a minimum within proximity to existing pedestrian routes and residential properties, and dust prevention measures, such as damping, would be undertaken to reduce the impact on users of the PRoW network.			
	Operation	The following elements comprise key landscape and visual embedded mitigation measures during the operational phase: • During the operational phase, the Scheme will generally remain unlit with the exception of the Customer Substation, BESS, and National	Embedded	**outline Operational Environmental Management Plan (oOEMP) [APP/7.8]**	Applicant Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Grid Substation which have motion-detection lighting utilised for operational and security purposes. The lighting design will seek to limit any impacts on sensitive receptors through directional cowls. • Retention of the majority of existing landscape features within and around the boundaries of the Site, namely mature hedgerows and tree cover which contribute to the landscape character of the local context. These landscape features serve to restrict, filter and enclose visibility within the Site and Study Area. There is some loss of vegetation proposed as part of the Scheme to allow for the Grid Connection Infrastructure, Site and internal field access. • Offset and buffering of the Scheme along with new, woodland, hedgerow and hedgerow tree planting to mitigate potential views from the nearby PRoW, roads and residential dwellings both within and in close proximity to the Site.		**oLEMP [APP/7.11]** **Design Principles, Parameters and Commitments [APP/5.8]**	

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• In addition to the establishment of new hedgerow and hedgerow trees, the embedded mitigation also includes the retention, gapping up and enhancement of existing hedgerow within the Site. New planting species would be native, locally prevalent and also include a mixture of deciduous and evergreen species to provide year-round screening. Alongside the existing hedgerow and trees within the Site's context, the gapping up of hedgerow with native trees and whips would provide visual screening of the Scheme from visual receptors within the wider Study Area, and from PRoW and droves within the Site itself. • The long-term management and maintenance of existing and new vegetation is an embedded mitigation measure which ensures vegetation would be actively managed in the long term. The prescribed maintenance height of hedgerow at 3m is an embedded mitigation measure which aims to			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		screen views towards taller elements of the Scheme from nearby PRoW. The active management and maintenance of trees and woodland within the Order limits, both newly planted and existing, aims to ensure they not only survive but reach maturity and establishment in the medium and long term durations. In turn, these landscape features are primary mechanisms for filtering and screening views towards the Scheme from nearby PRoW, roads and residential dwellings • Setting back the Scheme from key landscape features within and adjacent to the Site, such as trees, hedgerow and woodland. The minimum offsets/buffers included within the Concept Masterplan, from existing landscape features are outlined fully in **ES Chapter 5: The Scheme [APP/6.1].** The Scheme would be offset from existing PRoW by a minimum of 15m, to respect the amenity and experience for PRoW users along existing routes and			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		allow for the sowing of extensive areas of new grassland along the margins of the Scheme. New grassland/wildflower areas are also proposed to be sown underneath the Solar PV Arrays which would enhance biodiversity within the Site; and • Recreational enhancements such as interpretation boards and the potential for new publicly accessible amenity space within the north-western site area, that is connected to the existing PRoW network. In addition to this, a number of new permissive routes are proposed on Site, of approximately 3.5km in total.			
	Decommissioning	The following elements comprise key landscape and visual embedded mitigation measures during the decommissioning phase: • The planting, management and monitoring of landscaping and ecological mitigation and	Embedded	**oLEMP [APP/7.11]** **oDS [APP/7.10]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		enhancement habitats during decommissioning. • Prior to the commencement of any phase of decommissioning, a detailed DS, which will incorporate a Decommissioning Traffic Management Plan, would be submitted to and approved by the relevant local planning authority and secured by a requirement in the **draft DCO [APP/3.1]**. The DS must be in accordance with the **outline Decommissioning Strategy (oDS) [APP/7.10]**. This would ensure the potential decommissioning impacts associated with landscape character and visual amenity are minimised.			
Chapter 7: Ecology and Biodiversity	Construction, Operational, and Decommissioning	The following elements comprise key ecology and biodiversity embedded mitigation measures during the construction, operational, and decommissioning phases: • Buffers/offsets to sensitive ecological receptors.	Embedded	**oLEMP [APP/7.11]** **outline Construction Traffic Management**	Applicant Contractor Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• The identification of designated Site access and transit routes, which will follow existing field accesses, gaps in hedgerows, and trackways, including avoidance of the development buffers (where feasible to do so); and • Routing of construction traffic, which will avoid sensitive areas, including designated sites.		**Plan (oCTMP) [APP/7.7]** **outline Operational Traffic Management Plan (oCTMP) [APP/7.9]** **Design Principles, Parameters and Commitments [APP/5.8]**	
	Construction	The following elements comprise key ecology and biodiversity embedded mitigation measures during the construction, phase: • Pollution prevention measures • Additional measures to prevent the spread of exotic invasive species • Provision of new habitats	Embedded	**oCEMP [APP/7.6]** **oLEMP [APP/7.11]**	Applicant Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• Adherence to daylight working hours during construction activities where practicable, as well as the implementation of a sensitive lighting strategy to avoid temporary disturbance to bat flight lines and foraging areas • General construction safeguards in order to prevent accidental killing and injury of mammals including Badgers • Measures to prevent accidental killing and injury of mammals • To avoid an offence under the Wildlife and Countryside Act 1981 (as amended), the potential loss of active nests during construction will be avoided by either undertaking clearance of potential bird nesting habitat outside of the bird nesting season (March to August inclusive) or, if necessary, preceding any clearance with an inspection by a suitably qualified ecologist. Any nests identified will be cordoned off and protected until they cease to be active. Where necessary, the use of			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		bird scarers or other deterrence methods will be used to minimise the risk of ground nesting birds occupying open ground once construction works have commenced. • In order to avoid potentially significant effects on receptors during the Construction Phase as a result of anticipated damage from construction vehicles, dust deposition and surface run-off of contaminants or silt, it is proposed that standard mitigation measures are put in place during the construction phase. • A number of general safeguarding measures are set out in relation to fauna.			
	Operational	The following elements comprise key ecology and biodiversity embedded mitigation measures during the operational phase: • Ongoing management of habitats will be undertaken in accordance	Embedded	**oLEMP [APP/7.11]** **oOEMP [APP/7.8]**	Applicant Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		with the management strategies set out in the **oLEMP [APP/7.11]**. • Any new lighting will be minimised and directed away from sensitive receptors including trees, hedgerows and woodlands. • Where appropriate, security fencing will incorporate specific design measures such as gaps, gates or other features, (particularly associated with existing vegetated corridors and key commuting routes) in order to ensure continued permeability and access to foraging areas across the Site for Badgers; and • Mitigation and compensation measures in respect of Skylark and Curlew are proposed, including provision of new open grassland areas, favourable management of grassland margins and associated habitats, and long-term provision of Skylark plots within arable land outside of the proposed Solar PV Site (set out on the **Works Plan [APP/2.3]**). The proposed approach		**Works Plan [APP/2.3]**	

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		is set out within **ES Appendix 7.3: Proposed Mitigation Strategy for Ground Nesting Birds Requiring Open Habitats [APP/6.4]** and details of creation and management of specific grassland areas for ground nesting birds are identified within the **oLEMP [APP/7.11]**.			
	Decommissioning	The following elements comprise key ecology and biodiversity embedded mitigation measures during the decommissioning phase: • Pollution prevention measures • In order to ensure protection of sensitive receptors, measures such as the use of temporary fencing and working safeguards will be incorporated at the Decommissioning Phase of the Scheme • Additional measures will also be implemented to prevent the spread of exotic invasive species • Adherence to daylight working hours during decommissioning	Embedded	**oDS [APP/7.10]** **oLEMP [APP/7.11]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		activities where practicable, as well as the implementation of a sensitive lighting strategy to avoid temporary disturbance to bat flight lines and foraging areas • General construction safeguards in order to prevent accidental killing and injury of mammals including Badger • To avoid an offence under the Wildlife and Countryside Act 1981 (as amended), the potential loss of active nests during decommissioning will be avoided by either undertaking clearance of potential bird nesting habitat outside of the bird nesting season (March to August inclusive) or, if necessary, preceding any clearance with an inspection by a suitably qualified ecologist. Any nests identified will be cordoned off and protected until they cease to be active. Where necessary, the use of bird scarers or other deterrence methods will be used to minimise the risk of ground nesting birds occupying open			

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		ground once construction works have commenced. • In order to avoid potentially significant effects on receptors during the Decommissioning Phase as a result of anticipated damage from decommissioning vehicles, dust deposition and surface run-off of contaminants or silt, it is proposed that standard additional mitigation measures are put in place during the decommissioning phase; and • A number of general additional safeguarding measures will be set out in relation to faunal species.			
Chapter 8: Cultural Heritage and Archaeology	Construction	The following embedded mitigation measures have been incorporated into the Scheme's design for the Construction Phase: • Transportation routes have been identified to avoid, where possible, additional traffic movements past sensitive heritage assets	Embedded	**oCTMP [APP/7.7]** **oLEMP [APP/7.11]** **oCEMP [APP/7.6]**	Contractor Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• The locations of the Temporary Construction Compounds have been sited to avoid areas of known archaeological remains and to be unobtrusive to the settings of heritage assets. • The landscape strategy for the Scheme includes the gapping up and reinforcing of historic hedgerows and use of planting to provide screening from heritage assets • The remains of the World War II bombing decoy are located on the western edge of Field 11 will not be impacted as they fall within an area of ecological mitigation; however, these have been identified in the **oCEMP [APP/7.6]** to ensure no accidental damage occurs			
		The following additional mitigation measures have been incorporated into the Scheme's design for the construction phase:	Additional	**oCEMP [APP/7.6]**	Applicant Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• Geophysical survey (magnetometry) will be completed on the areas that area currently not available for survey (part of Field 3, Field 12, Fields 19 and 20, and part of Field 24). The need for geophysical survey along the working corridor for Grid Connection Infrastructure will be determined once the details of potential below ground disturbance are known. • The areas of known extensive impact (National Grid Substation and Customer Substation, BESS and Temporary Construction Compounds) will be subject to informative trenching at 3.5% by area. • Informative trenching will be undertaken in the remaining areas of the Site not subject to previous trenching. It has been agreed with NHES that the amount and location of any additional trenching will be targeted on areas of higher impact and proportionate to the overall			

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		impact. As such the amount and location of the trenches can only be confirmed following detailed design. • The need for and location of deep impacts (up to 15m for piles and/or directional drilling) are not yet known and so it is not possible to firmly identify the need for and location of any geoarchaeological assessment. Once details are available the need for and scope of any geoarchaeological assessment will be agreed with NHES. • Precise details of areas that will be subject to full archaeological excavation will be defined following completion of the geophysical survey and informative trenching and finalisation of the location and extent of development impacts. Some of the archaeological excavation areas may take the form of 'compensation' excavation rather than mitigation of individual impacts (i.e. certain areas may be examined in more detail in order to			

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		compensate for the loss of other areas). • It is known that the Roman period enclosure within Field 27 will be subject to almost complete removal by the installation of the Customer Substation and National Grid Substation and these remains will, therefore, require full excavation • It is known that the proposed construction will necessitate cable trenches to be excavated across some of the existing droves. Fincham Drove in particular is likely to have been formed in the Roman period, but the date of other elements of the droves within the Order limits is not yet known. Therefore, any locations of cable trenches crossing droves will be subject to detailed archaeological excavation. • Archaeological monitoring (a 'watching brief') may be required in certain areas where the impacts is			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		limited and/or where full excavation is not warranted. • It has been agreed with NHES that the impact of piling for the panel support structures is of such a low level that it will not compromise the integrity of the archaeological or limit the ability to understand the remains should archaeological investigation be carried out at a future date, with the proviso that certain archaeological features would need to be avoided or fully excavated. Such features would include (but are not limited to) structures, waterlogged remains, features with high artefactual or environment potential, industrial features and human remains. Should such features be identified by the informative trenching this would require either the adjustment of the pile layout to avoid particular archaeological features and/or the targeted use of concrete feet rather than piles to support the panel support structure. It is not envisaged that extensive areas will			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		require this treatment but any such works would be targeted and localised. • The option for localised areas of above ground cabling to preserve significant archaeological remains in situ where it is not practicable or desirable to mitigate by archaeological excavation will be available and will be informed by the detailed design and informative trenching.			
	Operational	The following embedded mitigation measures have been incorporated into the Scheme's design for the operational phase: • The landscape mitigation proposals which should reach maturity by Year 15, are the main embedded operational mitigation measures	Embedded	**oLEMP [APP/7.11]**	Scheme Operator
	Decommissioning	The following embedded mitigation measures have been incorporated into the Scheme design for the decommissioning phase:	Embedded	**oDS [APP/7.10]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• Banksmen must be aware of areas with archaeological assets and will be responsible for ensuring no vehicle/plant movement that could impact the archaeological horizon occurs in these areas. • Adherence to the measures detailed in **ES Appendix 8.7: Archaeological Mitigation Strategy [APP/6.4]** • Best practice measures during the decommissioning phase**.**			
Chapter 9: Transport and Access	Construction	The following embedded mitigation measures have been incorporated into the Scheme's design to mitigate the impacts during the construction phase: • Use of specific construction routes. • Where there is not a reasonable existing vehicle access location within the vicinity of the relevant area of the Scheme, a new vehicle access is proposed that complies with all relevant highway safety requirements.	Embedded	**oCTMP [APP/7.7]** **Works Plan [APP/2.3]** **Access and Right of Way Plan [APP/2.6]**	Applicant Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• The use of Temporary Construction Compounds for the Scheme where deliveries can be made from the Strategic Road Network, directly from the A1065 • Permanent improvements will be made to assist with the movement of vehicles within the Site • The Scheme will seek to employ the use of a shuttle bus service for staff who will park within the relevant Temporary Construction Compounds which will contain a designated parking area			
	Operation	The following embedded mitigation measures have been incorporated into the Scheme's design for the operational phase: • The detailed OTMP will identify the measures to be implemented during the operational phase to mitigate the effects associated with vehicles linked to replacement activities for the replacement of panels and infrastructure. The detailed OTMP	Embedded	**oOTMP [APP/7.9]** **oPRoWPPMP [APP/7.12]** **oOEMP [APP/7.8]**	Applicant Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		will set out a means to cap the total level of vehicular activity that would be acceptable each day at the Scheme, as well as set out a programme for replacement activity to take place. • The detailed PRoWPPMP will detail the measures to be implemented during the operational phase to mitigate the impacts to PRoW users during the operational, maintenance and replacement activities associated with the Scheme. • The **oOEMP [APP/7.8]** places a focus on the maintenance aspects of the Scheme, including the ongoing maintenance and replacement of components during the lifespan of the Scheme.			
	Decommissioning	The following embedded mitigation measures have been incorporated into the Scheme design for the decommissioning phase:	Embedded	**oDS [APP/7.10]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• A Decommissioning Traffic Management Plan (DTMP) will be secured as part of the detailed DS and provided once details on the decommissioning phase are available, which will focus on the traffic impacts and traffic management measures to be associated with the decommissioning phase • In advance of the DS being prepared and to set out the principles as to how the decommissioning phase will initially be mitigated and managed, an **outline Decommissioning Strategy (oDS) [APP/7.10]** is submitted with the DCO Application.			
Chapter 10: Noise and Vibration	Construction	The following embedded mitigation measures have been incorporated into the Scheme's design for the construction phase: • Activities that may give rise to audible noise at the surrounding properties and heavy goods vehicle deliveries to the Site would be	Embedded	**oCEMP [APP/7.6]** **oCTMP [APP/7.7]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		limited to the hours 07:00 to 18:00 Monday to Friday and Saturday 08:00 to 13:30 unless otherwise approved in advance by Breckland Council (BC). Those activities that are unlikely to give rise to noise audible at the Site boundary, or light vehicle traffic accessing the Site such as that involved with staff mobilisation, may continue outside of the stated hours • The embedded mitigation contained in the **oCEMP [APP/7.6]** includes a commitment to liaise directly with local residents, and the wider community, e.g., notifying them when particular noisy activities will occur and their duration. • The Site contractors shall be required to employ the Best Practicable Means (BPM) of reducing noise emissions from plant, machinery, and construction activities, as advocated in BS 5228-1 • Local residents will be informed of any percussive piling or earthworks			

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		construction activities planned as part of the reporting of information to local residents. • Measures in the **oCTMP [APP/7.7]** to control the movement of vehicles, access routes, hours of movement, and types of vehicles to and from the Site.			
		The additional mitigation measures have been incorporated into the Scheme's design for the construction phase have been outlined below: • Where practicable, trenchless works that are likely to result in significant noise effects at nearby residential receptors will be restricted to daytime working hours on weekdays (i.e. 07:00 to 18:00, Monday to Friday). • Local residents shall be notified in advance of any night-time construction activities likely to generate significant noise levels, e.g. Horizontal Directional Drilling	Additional	**oCEMP [APP/7.6]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		(HDD) or other trenchless works within 300m. • Trenchless works will be completed in the shortest practical timescale. • No trenchless work will be carried out at locations within 100m of a residential property (i.e. Keepers Cottage) during night-time hours without the agreement of the property resident. • No trenchless works will be carried out at night-time at locations less than 50m from any residential property; these measures are specific to Keepers Cottage only as no other receptor is within 100m of where trenchless works are expected. For residential properties located within 300m of trenchless work areas that could experience significant night-time noise levels due to night-time works (i.e., high to medium impact), the following measures will be considered			

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		and employed as necessary to mitigate any significant effects: • Use of alternative techniques such as micro-bore or pipe jacking. • Crossing points requiring potential HDD and associated work areas will be identified and located to maximise distance from dwellings as much as reasonably practicable. • Residents likely to be significantly affected by noise from trenchless works will be kept informed of the likely period during which the work will take place, the times and durations of planned works and the measures that are being taken to minimise noise. On completion of the trenchless works at a particular location, local residents will be informed that the works are complete and noise effects due to trenchless works will cease. • Monitoring noise from the works and minimising the noisiest drilling			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		work at night where possible and safe to do so. • Offering affected residents temporary re-housing for the duration of the night-time drilling works. • Any plant and equipment required for operation at night (23:00 - 07:00), e.g. generators or dewatering pumps, shall be silenced or suitably shielded to ensure that the night-time lower threshold of 45dB L_{Aeq} shall not be exceeded at the nearest noise-sensitive receptors; and • Temporary noise barriers will be installed around trenchless compounds in order to provide screening for sources located at low heights (note however that it is likely to be impractical to provide noise barriers that are high enough to screen an entire HDD drilling rig, for example). Where percussive piling is undertaken for the foundations of the PV Arrays			

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		within 400m of sensitive receptors, this should be restricted to no more than two periods of four hours each with at least one hour of no piling between these four-hour periods and restricted to the hours of 07:00 to 18:00 Monday to Friday and 08:00 to 13:30 on Saturdays. In addition, piling works within 130m of Keepers Cottage will be further controlled to reduce noise levels to not exceed 65dB L_{Aeq} over the working day, through use of quieter piling techniques and/or use of localised screening (if practicable). Prior notice to the residents on the time and duration of the construction vibratory works on the highway slip roads should be provided, these activities are expected to be of very short duration at the nearest point to the respective noise sensitive receptors and will decrease as activity moves further away.			
	Operational	The following embedded mitigation measures have been incorporated into	Embedded	**oOEMP [APP/7.8]**	Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		the Scheme's design for the operational phase: • Placement of National Grid Substation, Customer Substation, and Battery Energy Storage System, in Fields 27 & 24, has been selected to maximise separation distances to residential receptors as far as reasonably possible. • Acoustic barrier of 3.5m height is proposed along the western boundaries of Field 27 and partially along the western side of Field 24, between the Battery Energy Storage System and the PRoW. • Minimum separation distance of 15m between for Conversion Units in the Solar PV Site to the PRoW. • Minimum separation distance of 250m for Conversion Units in the Solar PV Site to residential receptors. • The **oOEMP [APP/7.8]** includes measures to monitor and maintain the equipment, including noise		**oOTMP [APP/7.9]**	

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		production, and a complaints procedure for members of the public to report noise disturbance at residential properties, as well as the embedded mitigation measures above. • Maintenance during the operational phase including ad-hoc replacements of defective PV panels will be carried out on a small scale typically by using light service vehicles (e.g., 4x4 or Panel Vans) and limited HGV use. Programmed replacements and upgrades of PV panels or Battery Energy Storage System components will also be phased.			
		The additional mitigation for the operational phase involves finalising the design of the Scheme, plant selection and/or use of additional screening/enclosures (if required) to achieve rated noise levels not exceeding 35dB at all neighbouring residential properties. This noise limit will be secured through a requirement of the DCO. The design and	Additional	**oOEMP [APP/7.8]**	Applicant Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		management of plant noise, as well as monitoring measures.			
	Decommissioning	The following embedded mitigation measures have been incorporated for the Scheme's decommissioning phase: • Activities that may give rise to audible noise at the surrounding properties and heavy goods vehicle deliveries to the Site would be limited to the hours 07:00 to 18:00 Monday to Friday and Saturday 08:00 to 13:30 unless otherwise approved in advance by BC (except in case of an emergency). Those activities that are unlikely to give rise to noise audible at the Site boundary, or light vehicle traffic accessing the Site such as that involved with staff mobilisation, may continue outside of the stated hours. • The embedded mitigation contained in the detailed DS will include the commitment to liaise directly with local residents, and the wider	Embedded	**oDS [APP/7.10]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		community, e.g., notifying them when particular noisy activities will occur and their duration. • The Site contractors shall be required to employ the Best Practicable Means (BPM) of reducing noise emissions from plant, machinery, and construction activities, as advocated in BS 5228-1.			
		As the decommissioning phase will result in similar effects as the construction phase for the relevant activities, such as removal of the piles near Keepers Cottage, similar additional mitigation measures outlined for construction activities close to that receptor (such as localised screening) can be employed for the decommissioning phase where relevant. This would be sufficient, even as a worst-case, to reduce the level of effects.	Additional	**oDS [APP/7.10]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
Chapter 11: Soils and Agriculture	Construction	The following embedded mitigation measures have been incorporated into the Scheme's design for the construction phase: • Minimising or avoiding vehicle movement over soils (trafficking) when soils are in a plastic, wet state. • Only moving soils, which is only necessary for limited areas such as to build tracks, the BESS and National Grid Substation and Customer Substation, when soils are dry. • For the small volumes of soils that need to be stored for subsequent restoration, placing them into storage bunds when they are dry, and managing and maintaining the bunds. • Minimising trench widths, replacing soils in the reverse order and preventing any adverse long-term effects on land quality; and	Embedded	**oSMP [APP/7.13]** **oCEMP [APP/7.6]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• Adherence to the other measures detailed in the **oSMP [APP/7.13]**.			
	Operational	The following embedded mitigation measures have been incorporated into the Scheme's design for the operational phase: • Minimising travel over the land in vehicles when ground conditions are wet; and • Adherence to the other measures detailed in the **oSMP [APP/7.13]**.	Embedded	**oSMP [APP/7.13]** **oCEMP [APP/7.6]**	Scheme Operator
	Decommissioning	The following embedded mitigation measures have been incorporated into the Scheme's design for the decommissioning phase: • Following the same principles as are to be applied at the construction phase; and • Adherence to the other measures detailed in the **oSMP [APP/7.13]**.	Embedded	**oSMP [APP/7.13]** **oCEMP [APP/7.6]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
Chapter 12: Water Resources	Construction	The following mitigation measures relating to the hydrological environment are embedded into the design and construction of the Scheme, as detailed in the **oCEMP [APP/7.6]**: • 10m watercourse edge buffers for all infrastructure works (i.e. Solar PV Site and Ancillary Infrastructure, Associated Development, and Temporary Construction Compounds) with the exception of watercourse crossings for cables and Access Tracks. • 10m buffer of Internal Drainage Board (IDB) maintained watercourses. • 10m buffer of marl pits. • HDD for watercourses. • Locating the Scheme outside of utilities' protected zones and avoiding pipelines as part of detailed design of the Scheme. Additionally, pipelines will be	Embedded	**oCEMP [APP/7.6]**	Contractor Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		located using techniques such as CAT scanning. • The Scheme will utilise existing access roads and agricultural tracks already in place where possible, and this will help to minimise ground disturbance and requirements for further watercourse crossings. • Watercourse crossings will take one of several forms depending on the nature of works, habitat sensitivity, and other environmental and technical design considerations. HDD will be the default option for watercourse crossings by cables and is the least invasive, most sensitive method, although it may not be suitable or necessary in some locations, such as for small field drains. In such locations, watercourse crossings will take one of the following forms, which are listed in order of least to most impact and are likely to be appropriate, respectively, for the most to least sensitive features:			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• Single-span structures that do not interfere with the channel (banksides, bed or water column). • Span structures with in-stream supports or pre-cast structures with natural bed. • Closed culverts with artificial invert; and • Open trench with over-pumping. Crossings will be designed as part of detailed design, post-consent, and the **oCEMP [APP/7.6]** commits to the soffit level of any bridges sitting above the design flood level. The design flood level for permanent crossings would be the 1% AEP plus Upper End climate change scenario (+40% CC) and will involve the following parameters: • Soffit height of the bridge will be a minimum of 600mm above the 1% AEP + Climate change allowance flood level.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• All abutments must be set back a minimum 1m from the top of the bank and as minimal as possible. • Any loss of floodplain due to abutments and ramps will need to be compensated for; and • All parapets and railings need to be permeable and open as possible with a minimum 10mm spacing. Access will be taken from existing access points, where suitable, and would initially be asphalt followed by graded Type 2 or 3 washed/clean aggregate or just use graded Type 2 or 3 washed/clean aggregate. Where new access points are required the bellmouth will typically be asphalt and would be limited in extent. This limits the potential for increased surface water runoff rates and sedimentation effects during rainfall events. The **oCEMP [APP/7.6]** describes water management measures to control surface water runoff and drain hardstanding and other structures during the construction, operation and			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		decommissioning of the Scheme. A Pollution Prevention Plan (PPP) will also form part of a detailed CEMP.			
	Operational	The following embedded mitigation measures have been incorporated into the Scheme's design for the operational phase: • The BESS, Customer Substation, and National Grid Substation will be served by a SuDS network designed to the 1% AEP event plus 40% climate change allowance; and • Access Tracks will be served by trackside drainage ditches and will include check dams at regular intervals, as stipulated in the SuDS Manual, to prevent the rapid transfer of water downslope. The Scheme is committed to having dedicated contaminated water tanks with automated penstocks to prevent fire suppressant reaching the infiltration components of the SuDS network, in the rare event of a fire within the BESS,	Embedded	**oOEMP [APP/7.8]**	Scheme Operator Contractor Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Customer Substation, and National Grid Substation.			
Chapter 13: Climate Change	Construction	Embedded mitigation measures will be implemented to reduce the GHG impact of the Scheme. Specific embedded mitigation measures include the following: <u>Reducing waste:</u> • Off-site prefabrication, where practical, including the use of prefabricated elements. • Segregation of waste at source, where practical. • Increasing recyclability by segregating construction waste to be re-used and recycled where reasonably practicable. • Designing, constructing and implementing the Scheme in such a way as to minimise the creation of waste and maximise the use of alternative materials with lower embodied carbon, such as locally	Embedded	**oCEMP [APP/7.6]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		sourced products and materials with a higher recycled content where feasible. • Reusing suitable infrastructure and resources already available within the Development Area where practicable; and • Off-site reuse, recycling and recovery of materials and waste where reuse on-site is not practical. <u>General Practices:</u> • Adopting the Considerate Constructors Scheme (CCS) to assist in reducing pollution, including GHGs, from the Scheme by employing good industry practice measures. • Conducting regular planned maintenance of the construction plant and machinery; and • Retention of existing vegetation as far as practicable. <u>Reducing vehicle emissions:</u>			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• Encouraging the use of lower carbon modes of transport by identifying and communicating local bus connections and pedestrian and cycle access routes to/from the Scheme to all construction staff, and providing appropriate facilities for the safe storage of cycles. • Switching vehicles and plant off when not in use and ensuring construction vehicles conform to current EU emissions standards adopted by the UK; and • Implementing a shuttlebus to transport employees to the Site. Climate change resilience measures are embedded within the Scheme, particularly in relation to flood risk. These measures are outlined below,: • Access will be taken from existing access points, where suitable, and would initially be asphalt followed by graded Type 2 or 3 washed / clean aggregate or just use graded Type 2 or 3 washed / clean aggregate. Where new access points are			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility

		required, the bellmouth will typically be asphalt and would be limited in extent.
		• The design flood level for permanent crossings would be the 1% AEP plus Upper End climate change scenario (+40% CC) and will involve the following parameters:
		  • Soffit height of the bridge will be a minimum of 600mm above the 1% AEP + Climate change allowance flood level.
		  • All abutments must be set back a minimum 1m from the top of the bank and as minimal as possible; and
		  • All parapets and railings need to be permeable and open as possible with a minimum 10mm spacing.
		Additional climate change resilience measurements will be embedded within the Scheme:			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• Using equipment's cooling systems where necessary/adapting working practices and equipment used based on current weather conditions. • Measures to protect workers and resources from extreme weather conditions. • Monitoring weather forecasts and the news for Environment Agency flood warnings, relevant weather warnings, and water levels of the local waterway; and • BESS systems would include heating, ventilation and cooling (HVAC) systems and these would be contained within the individual equipment containers.			
	Operational	The following embedded mitigation measures will be in place for operation: • Using equipment's cooling systems where necessary/adapting working practices and equipment used	Embedded	**oOEMP [APP/7.8]**	Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		based on current weather conditions. • Protecting workers and resources from extreme weather conditions through appropriate PPE and working practices as secured through the **oOEMP [APP/7.8]** . • Monitoring weather forecasts and the news for Environment Agency flood warnings, relevant weather warnings, and water levels of the local waterways. This has been detailed in the **oOEMP [APP/7.8]** for inclusion within the OEMP; and • BESS systems would include HVAC systems and these would be contained within the individual equipment containers. The following embedded mitigation measures have been incorporated into the Scheme's design for the operation phase: • The BESS, Customer Substation, and National Grid Substation will be served by a SuDS network			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		designed to the 1% AEP event plus 40% climate change allowance; and • Access Tracks will be served by trackside drainage ditches and will include check dams at regular intervals.			
	Decommissioning	Similar measures to the construction phase will be developed prior to the decommissioning phase for the use of lower-carbon and more climate change resilient methods.	Embedded	**oDS [APP/7.10]**	Contractor
	Construction, Operational and Decommissioning	Monitoring of the weather is essential for all phases as it is integral to planning works accordingly and safeguarding against extreme weather conditions. This proactive approach ensures the safety of workers and the protection of infrastructure.	Additional	**oCEMP [APP/7.6]** **oOEMP [APP/7.8]** **oDS [APP/7.10]**	Applicant Contractor Scheme Operator
Chapter 14: Socio-Economics	Construction	The following embedded mitigation measures have been incorporated into the Scheme's design for the construction phase:	Embedded	**oCEMP [APP/7.6]**	Contractor Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• Construction works which create dust will be kept to a minimum within proximity to existing pedestrian routes and residential properties, and dust prevention measures, such as damping, will be undertaken to reduce the impact on users of the PRoW network; and • During the construction phase, the Applicant will implement employment and skills measures designed to maximise local benefits from the Scheme.		**oESSCS [APP/7.15]**	
	Operational	The following embedded mitigation measures have been incorporated into the Scheme's design for the operation phase: • Offset and buffering of the Scheme with new hedgerow and tree planting to mitigate potential views from the existing residential dwellings within close proximity to the Site • Recreational enhancements such as interpretation boards and the	Embedded	**oLEMP [APP/7.11]** **oESSCS [APP/7.15]**	Applicant Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		potential for new publicly accessible amenity space within the north-western site area, that is connected to the existing Public Right of Way (PRoW) network. In addition to this, a number of new on-Site permissive routes are proposed, approximately 3.5km in total, to provide recreational benefits. • Internal access routes will be provided within the Site to minimise vehicles needing to use the Local Road Network (LRN) where possible; and • During the operational phase, the Applicant will embed initiatives to sustain long-term skills development and community benefits. This will include offering site tours for schools and colleges, delivering educational outreach on solar energy, and supporting summer internship and research programmes. The Applicant will also explore sponsoring local students and running green energy			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		awareness campaigns to raise understanding of the sector.			
	Decommissioning	The following embedded mitigation measures have been incorporated into the Scheme design for the decommissioning phase: • Decommissioning works which create dust will be kept to a minimum within proximity to existing pedestrian routes and residential properties, and dust prevention measures, such as damping, will be undertaken to reduce the impact on users of the PRoW network.	Embedded	**oDS [APP/7.10]**	Contractor
Chapter 15: Human Health	Construction	The following embedded mitigation measures have been incorporated into the Scheme's design for the construction phase: • The use of visual screening, such as hoardings, would be implemented for more sensitive visual receptors in proximity to the Site, including residential and PRoW receptors	Embedded	**oCEMP [APP/7.6]** **oCTMP [APP/7.7]** **oESSCS [APP/7.15]**	Contractor Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		that have the greatest potential to be affected by the Scheme • Construction works which create dust would be kept to a minimum within proximity to existing pedestrian routes and residential properties, and dust prevention measures, such as damping, would be undertaken to reduce the impact on users of the PRoW network. • Internal access routes will be provided within the Site to minimise vehicles needing to use the Local Road Network (LRN) where possible; and • During the construction phase, the Applicant will implement employment and skills measures designed to maximise local benefits from the Scheme.			
	Operational	The following embedded mitigation measures have been incorporated into the Scheme's design for the operational phase:	Embedded	**oLEMP [APP/7.11]** **oOEMP [APP/7.8]**	Scheme Operator Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• The **oLEMP [APP/7.11]** details the retention of the majority of existing landscape features within and around the boundaries of the Site, namely mature hedgerows and tree cover, which contribute to the landscape character of the local context. • The **oLEMP [APP/7.11]** details the offset and buffering of the Scheme with new woodland, hedgerow and tree planting to mitigate potential views from the nearby PRoW, roads and residential dwellings both within and in close proximity to the Site. • The **oLEMP [APP/7.11]** details the recreational enhancements such as the potential for new publicly accessible amenity space within the north-western area of the Site, that is connected to the existing PRoW network. • A Community Liaison Manager will be appointed as a temporary facilitator of communications between communities and the		**oESSCS [APP/7.15]**	

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Scheme's operators during the peak replacement scenario; and • The Applicant will embed initiatives to sustain long-term skills development and community benefits.			
	Decommissioning	The following embedded mitigation measures have been incorporated into the Scheme design for the decommissioning phase: • Decommissioning works which create dust will be kept to a minimum within proximity to existing pedestrian routes and residential properties, and dust prevention measures, such as damping, will be undertaken to reduce the impact on users of the PRoW network.	Embedded	**oDS [APP/7.10]**	Contractor
Chapter 16: Other Environmental Matters (Air Quality)	Construction	Dust emissions associated with construction activities will be controlled through mitigation measures outlined in the **oCEMP [APP/7.6]**. Vehicle traffic emissions produced during the construction phase,	Embedded	**oCEMP [APP/7.6]** **oCTMP [APP/7.7]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		including exhaust and non-exhaust emissions such as brake and tyre wear, as well as measures to minimise dust emissions arising from vehicles entering and leaving the Site, will be controlled through mitigation measures specified in the **oCTMP [APP/7.7]**. Confirmation that all Non-Road Mobile Machinery (NRMM) used will adhere to the latest emissions standards in line with European regulations (EU 2016/1628).			
	Decommissioning	Dust emissions associated with decommissioning activities will be controlled through mitigation measures outlined in the **oDS [APP/7.10]**.	Embedded	**oDS [APP/7.10]**	Contractor
Chapter 16: Other Environmental Matters (Glint and Glare)	Operational	Advanced planting and hedgerow enhancement will be undertaken during winter 2025 and is to be completed during winter 2026 along the eastern boundary of the Site (see **Appendix 3: Advanced Planting Plan** to the **oLEMP [APP/7.11]**) in order to fill gaps within the existing screening found between the Site and the A1065.	Embedded	**oLEMP [APP/7.11]** **oCEMP [APP/7.6]**	Contractor Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Temporary hoarding is to be erected on the A1065 in the areas shown on **ES Figure 5.2: Construction Masterplan [APP/6.3]** and will remain in place until the advanced planting reaches 3m in height in these areas.			
Chapter 16: Other Environmental Matters (Telecommunications, Utilities and Television Receptors)	Construction, Operational and Decommissioning	The following embedded mitigation measures have been incorporated into the Scheme design to identify and manage utilities interactions. These include the following precautionary measures : • Locating the Scheme outside of utilities' protected zones as part of detailed design of the Scheme, where practicable. This includes partaking in discussions with relevant utility providers as part of the detailed design evolution of the Scheme to ensure legal, safety, and practical design considerations to ensure these have been actively integrated into the Scheme. • Above and below-ground infrastructure as part of the Scheme	Embedded	**oCEMP [APP/7.6]** **oLEMP [APP/7.11]** **oOEMP [APP/7.8]** **oDS [APP/7.10]**	Contractor Applicant Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		located with adequate offsets/buffers from existing telecommunications and utility infrastructure, where practicable. • Use of geophysical data alongside mapping provided by telecommunication and utilities providers to ensure overground utilities are adequately offset. • The use of ground penetrating radar before excavation to identify any unknown utilities. • Infrastructure that crosses the Scheme is mapped and will be avoided through the detailed design. • Engagement with relevant landowners within the Order limits to identify utilities; and • Consultation and agreement of construction/demobilisation methods will be undertaken prior to works commencing. During all phases of the Scheme there will be safe working beneath any			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		overhead lines and above underground utilities, including, for example, ensuring adequate clearances are in place when plant and equipment are being moved beneath overhead lines, and limiting any planting beneath overhead lines to low growing species. Furthermore, where the proposed cabling crosses existing below ground utilities, the cables will be laid so that the utilities are crossed at 90° where possible and will be suitably offset where running parallel. This will reduce operational impacts to the existing utility cables.			
Chapter 16: Other Environmental Matters (Waste)	Construction	The following embedded mitigation measures have been incorporated into the Scheme's design for the construction phase: • The Scheme design incorporates embedded mitigation through the predominant use of pre-fabrication. This approach reduces on-site construction waste, with waste produced during unit manufacturing	Embedded	**oCEMP [APP/7.6]** **oSMP [APP/7.13]**	Contractor Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		being managed by the companies producing the PV panels, Mounting Structures, BESS, temporary construction site office units, cabling, and (where practicable) National Grid Substation and Customer Substation infrastructure • In accordance with the waste hierarchy and the objective of minimising waste generation, uncontaminated excavated soil and stone is, where feasible, to be reused on-site. The Scheme commits to excavated ground material being stored on-site or reused if suitable for bedding of cables, ground compaction, and cut/fill operations during site grading. Soils from the Scheme will be removed for treatment or disposal if they are found to be contaminated and cannot be treated on-site. Any toxic and hazardous materials will also need to be handled by an authorised carrier and a suitably qualified contractor, ensuring no cross-contamination with 'clean' materials. These control			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		measures are set out in the **oCEMP [APP/7.6]** while site storage measures are set out in the **oSMP [APP/7.13]**. • The Scheme will minimise and eliminate waste streams wherever possible, pursuing opportunities for reusing material resources. When reuse and prevention are not feasible, waste will be managed according to the waste hierarchy and detailed in the **oCEMP [APP/7.6]**. Industry-standard practices and control measures to address environmental impacts during construction, such as on-site material and waste management. These measures include the separation of main waste streams on-site before transport to approved, licensed third-party waste facilities for recycling or disposal. • A Site Waste Management Plan (SWMP) is to be prepared before construction begins. The SWMP will detail the efficient management,			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		storage, and legal disposal of materials during the construction phase; and A Construction Resource Management Plan (CRMP) will be prepared by the appointed contractor, outlining the strategic approach to planning, coordinating, and managing the labour, materials and equipment.			
	Operational	The following embedded mitigation measures have been incorporated into the Scheme's design for the operational phase: • During the operational phase, the Scheme will adhere to the waste hierarchy by prioritising waste prevention, followed by the reuse, recycling, and recovery of equipment during the replacement of components. Landfill disposal will be considered only as a last resort. A Waste Management Strategy will be developed and agreed with the authority prior to commencement of the operation	Embedded	**oOEMP [APP/7.8]**	Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• All waste management will comply with relevant regulations, and waste will be transported by licensed hauliers to authorised waste management sites with the necessary permits for the consigned wastes • The Scheme is expected to generate Waste Electrical and Electronic Equipment (WEEE) during the operation phase. This includes PV panels and smaller quantities from Associated Development. These items will be recovered and recycled by an authorised reprocessor in compliance with the WEEE Regulations 2013. To ensure this is done according to *"Best Available Treatment Recovery and Recycling Techniques"*, a list of up-to-date authorised reprocessors should be established prior to the operation phase of the Scheme and kept up-to-date throughout the operation phase.; and			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• Batteries must be separated from WEEE streams so they can be recovered, recycled, or disposed of in accordance with the Waste Batteries and Accumulators Regulations 2009. This is most likely to be undertaken by the battery manufacturer or supplier. This requirement will be secured ahead of the Scheme's operation phase to ensure it is undertaken as legally required throughout the operation phase of the Scheme.			
	Decommissioning	The following embedded mitigation measures have been incorporated into the Scheme design for the decommissioning phase: • During decommissioning, the Solar PV Arrays, 33 kV Sub-distribution Switch Rooms, Ancillary Buildings, Ancillary Infrastructure, Conversion Units, Customer Substation, and BESS will be removed, recycled, recovered, or disposed of in accordance with good practice and market conditions at that time. The	Embedded	**oDS [APP/7.10]**	Applicant Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Scheme is anticipated to generate WEEE; however, the recycling and recovery of these items is detailed in the **oDS [APP/7.10]** • The decommissioning of the Scheme will adhere to the measures and procedures outlined in the **oDS [APP/7.10]**. A Decommissioning Resource Management Plan (DRMP) will be developed by the appointed contractor and will set out how to manage the disposal of waste in accordance with relevant legislative and policy requirements at the time of decommissioning			
	Construction, Operational and Decommissioning	In accordance with the waste hierarchy, the Scheme will prioritise waste prevention, followed by preparation for reuse, recycling, and recovery, with landfill disposal as the last resort. The nature of the waste to be produced during construction, operation and decommissioning phases will mean it will be managed by appropriately	Embedded	**oCEMP [APP/7.6]** **oOEMP [APP/7.8]** **oDS [APP/7.10]**	Contractor Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		permitted carriers and facilities in line with the appropriate environmental permits and requirements. All waste management will comply with relevant industry regulations and legislation. All waste transported off-site will be delivered to appropriately licensed receivers. Operators receiving waste materials from the Scheme will follow their own consenting procedures.			

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