THE DROVES
SOLAR FARM

The Droves Solar Farm

Commitments Register (Tracked)

Prepared by: LDA Design
Date: October 2026
PINS reference: EN0110013
Document reference: APP/6.5.1 (Revision 1)
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. This document has been updated at Deadline 6 to include the updated environmental mitigation measures as set out in the latest revision of those management plans named below which have been updated and submitted at Examination Deadlines. The document references have not been updated from the original submission. Please refer to **the Guide to the Application [APP/1.3.8]** for the list of current versions of documents.

~~1.1.2~~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]** and the commitment in Requirement 13(1) of Schedule 2 of the **draft DCO [APP/3.1.6]** that the permitted preliminary works must be carried out in accordance with the **Permitted Preliminary Works Environmental Management Plan (PPWEMP) [APP/8.25.1]**.

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	Permitted Preliminary Works	The following elements comprise key landscape and visual embedded mitigation measures during permitted preliminary works: • A tree survey would be required prior to starting PPW to re-establish the baseline. This survey would inform the tree protection zones to be applied during construction. Site hoarding and 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 would be adopted incorporating best practice guidance set out in British Standard 5837:2012 Trees in Relation to Design,	Embedded	**PPWEMP [APP/8.25.1]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Demolition and Construction which would ensure retained trees and other vegetation are not adversely affected during the PPW process. • Five internal access track crossings of existing PRoWs will be affected during the PPW. HGV movements at these crossings will be managed by banksmen. Where closures are required, they will be temporary, undertaken overnight where possible, and supported by advance notice and signed diversion routes. Diversions will be kept as short and brief as practicable to minimise impacts on PRoW users.			
	Construction	The following elements comprise key landscape and visual embedded mitigation measures during the construction phase: • Temporary lighting during construction may be required	Embedded	**outline Construction Environmental Management Plan (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
		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, 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		**outline Landscape and Ecological Management Plan (oLEMP) [APP/7.11]**	

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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 for more sensitive visual receptors in proximity to the Site, including residential and PRoW receptors that have the			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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	Embedded	**outline Operational Environmental Management Plan (oOEMP) [APP/7.8]** **oLEMP [APP/7.11]** **Design Principles, Parameters and**	Applicant Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Substation, BESS, and National 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.		**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
		• 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. • 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			

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

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		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 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			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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. • Fencing will not be located along the crest of a bund. • PAR Mitigation will not be located in parallel on both sides of River Road or Petticoat Road in order to avoid the effect of funnelling. • Bunds will be specified instead of a fence in locations where there is no intervening			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		PV Tables located between the position of the PAR Mitigation bund and the visual receptors users of Petticoat Drove, River Road and Keepers Cottage. • Transitions between a bund and a fence will not occur directly opposite and in direct line of sight from users of Petticoat Drove and River Road. • The slopes of the bund will not exceed 1:3 and will be seeded with grass only. • The PAR Mitigation fence will consist of non-reflective materials and will not replace the deer fence around the perimeter of Solar PV Arrays. The fence will be sited no closer than 4m to the security fencing, will be externally finished to be in keeping with the prevailing surrounding environment and will be carefully selected in subdued,			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		non-reflective tones to sit as discreetly as practicable within the landscape. • The PAR Mitigation will be located within Work No. 1(a) only.			
	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 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	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
		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	Permitted Preliminary Works	The following elements comprise key ecology and biodiversity embedded mitigation measures during PPW: • An Ecological Clerk of Works (EcoCoW) will be designated at the onset of the PPW, which will provide ecological supervision during required surveys, monitoring, works and/or operations which have the potential to impact protected and notable species, as defined by the criteria set out in the **PPWEMP [APP/8.25.1]**.	Embedded	**PPWEMP [APP/8.25.1]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• Where identified as required by the ECoW, construction personnel will receive a Toolbox Talk detailing the presence of sensitive ecological features and will be informed that no materials should be stored in, or vehicles drive through, buffer zones. • Temporary site lighting will be designed as far as reasonably practicable to minimise potential for light spillage outside the Order limits, particularly towards valuable ecological habitats. Standard good practice measures would be employed to minimise light spill, including glare, during PPW. • To avoid an offence under the Wildlife and Countryside Act 1981 (as amended), the potential loss of active nests during PPW will be avoided by either undertaking			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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. • Measures to prevent the potential spread of Schedule 9 exotic invasive weed species (per the Wildlife and Countryside Act 1981 (as amended)). • A sensitive lighting strategy will specify where and how any artificial lighting will be used. • Temporary hoarding and working safeguards will be employed, as necessary, to protect development buffer			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		zones around key ecological habitats. • Erection of tree protection fencing around retained woody vegetation, hedgerows and trees in accordance with BS5837:2012 • Erection of temporary fencing around PPW areas, protecting retained habitats of ecological value. • Any trenches or deep pits within the Site that are to be left open overnight will be provided with a means of escape should a Badger or other mammal enter. • Any trenches/pits will be inspected each morning to ensure no animals have become trapped overnight. • The storage of topsoil or other 'soft' building materials in the Site will be given careful consideration to avoid			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Badgers adopting mounds as setts. • To minimise adverse effects as a result of lighting during the PPW, temporary lighting will be minimised, wherever practical. Where required for health and safety, security or other reasons, it will be positioned so as to minimise light spill on to hedgerows and other boundary features. • Should additional Badger setts be discovered in locations which cannot be accommodated within the Scheme design (including where new setts are discovered in locations which disrupt or prevent construction activities), it is anticipated that such setts would need to be closed under licence, with suitable mitigation measures/compensation			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		provided in line with relevant licence requirements.			
	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. • The identification of designated Site Aaccess 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. • Along the A1065, deer fencing will be placed around	Embedded	**oLEMP [APP/7.11]** **outline Construction Traffic Management Plan (oCTMP) [APP/7.7]** **outline Operational Traffic Management Plan (oCTMP) [APP/7.9]** **Design Principles, Parameters and Commitments [APP/5.8]**	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
		each individual field (Fields 20, 21, 25 and 26) so as to not bisect the hedgerow boundaries and to allow for the continued free movement of deer along the existing hedgerows away from the A1065. • If a fence is specified for the PAR Mitigation, clearances above ground or mammal gates will be included within the fence to permit the passage of wildlife. • If a bund is specified for the PAR Mitigation, the slopes will not exceed 1:3 and will be seeded with grass only. • The PAR Mitigation will be located within Work No. 1(a) only. • A detailed Invasive Species Management Plan will be set out within the detailed LEMP. • A sensitive lighting strategy (set out within the detailed			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		CEMP) will specify where and how any artificial lighting will be used.			
	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 • 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	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
		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 bird scarers or other deterrence methods will be used to minimise the risk of ground nesting birds occupying open ground once			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		construction works have commenced. • Measures to prevent the potential spread of Schedule 9 exotic invasive weed species (per the Wildlife and Countryside Act 1981 (as amended)). • 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	**oLEMP [APP/7.11]**	Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		embedded mitigation measures during the operational phase: • Ongoing management of habitats will be undertaken in accordance 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		**oOEMP [APP/7.8]** **Works Plan [APP/2.3]**	Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Skylark and Eurasian 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 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	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
		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 activities where practicable, as well as the implementation of a sensitive lighting strategy to avoid temporary disturbance to bat flight lines and foraging areas			

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

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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	Permitted Pre-liminary Works	The following elements comprise key cultural heritage and archaeology embedded mitigation measures during the PPW:	Embedded	**PPWEMP [APP/8.25.1]**	Applicant Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• Where PPW will be undertaken in the relative proximity of designated assets, works, including the storage of materials, will be undertaken as far away from the assets as reasonably practicable. • **ES Appendix 8.7: ~~The~~ outline Archaeological Mitigation Strategy (oAMS) [REP2-016]** details the overarching methodology for undertaking a programme of archaeological mitigation within the Order limits. The proposed mitigation strategy detailed in the oAMS will be implemented as part of the PPW.			
	Construction	The following embedded mitigation measures have been incorporated into the Scheme's design for the Construction Phase:	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
		• Transportation routes have been identified to avoid, where possible, additional traffic movements past sensitive heritage assets • 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**			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		[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: • 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	Additional	**oCEMP [APP/7.6]** **Design Principles, Parameters and Commitments [APP/5.8.6]**	Applicant Contractor

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

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

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		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 limited and/or where full excavation is not warranted. • It has been agreed with NHES that the impact of piling for the			

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		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			

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		structure. It is not envisaged that extensive areas will 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. • If a fence is specified for the PAR Mitigation the maximum depth of fence foundations will be no greater than the piled mounting structures. • The PAR Mitigation will be located within Work No. 1(a) only.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
	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: • 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:**	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
		Archaeological Mitigation Strategy [APP/6.4] • Best practice measures during the decommissioning phase.			
Chapter 9: Transport and Access	Preliminary Permitted Works	The following elements comprise key transport and access embedded mitigation measures during the PPW: • Where a vehicle track crosses a PRoW, measures will be implemented, where practicable, to ensure safe use of the PRoW, including use of banksmen, provision of sufficient access track width, limiting vehicle speed to 5-10mph, and PPW vehicles giving way to PRoW users. • There will be no Abnormal Indivisible Loads (AILs) movements during PPW. • PPW deliveries by HGV will be coordinated to arrive/depart between 09:00-	Embedded	**PPWEMP [APP/8.25.1]**	Applicant Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		17:00. They will be coordinated to avoid vehicle movements during the traditional AM peak hour (08:00-09:00) and PM peak hour (17:00-18:00); and • Banksmen will be provided at the Site accesses to indicate to PPW traffic when it is safe for them to enter and exit the Site.			
	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	Embedded	**oCTMP [APP/7.7]** **Works Plan [APP/2.3]** **Access and Right of Way Plan [APP/2.6** **Design Principles, Parameters and Commitments [APP/5.8.6]**	Applicant Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		complies with all relevant highway safety requirements. • 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 • The Applicant would construct and utilise the (operational) Access Tracks in order to provide access throughout the Site during the construction phase. The			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Applicant confirms that only access points A, B and C will be used for vehicles to access and egress from the public highway. All other access points will be used as internal access points only, so vehicles will not access or egress from the Scheme via those access points. • With reference to the existing agricultural tracks within the Scheme that are not associated with construction, these will remain accessible for agricultural use and associated activities throughout construction. • A daily vehicle cap of 96 two-way HGVs and 532 two-way cars / LGVs will be in place during the construction phase of the Scheme. Traffic movements to facilitate the construction of the PAR Mitigation will be within the cap of daily construction			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		movements secured within the **oCTMP [REP5-064]**. •			
	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 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.	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
		• It is confirmed, through the routing secured in the oOTMP **[REP5-066]**, that vehicles will only access and egress from the Scheme from the A1065 (access points A, B and C) (excluding Access C, which is required temporarily during construction only). At all other access points, vehicles will only travel across these access points to access the internal haul roads on the other side, meaning they will not be used directly for vehicles to arrive or depart at the Scheme. • 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.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• 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. • The Applicant will collaborate with other nearby developments, including the undertaker of the proposed High Grove Solar Farm, to co-ordinate the staggering of replacement activities to avoid overlap in any activity peaks, where practicable. • The operational and maintenance vehicles will utilise the access points from the A1065 to access the Scheme, then route along the internal tracks, the layout of which will be confirmed as part of the detailed design. • The existing tracks proposed for use within the Scheme will			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		remain accessible for agricultural and other associated activities throughout the lifetime of the Scheme.			
	Decommissioning	The following embedded mitigation measures have been incorporated into the Scheme design for the decommissioning phase: • 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	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
		managed, an **outline Decommissioning Strategy (oDS) [APP/7.10]** is submitted with the DCO Application.			
Chapter 10: Noise and Vibration	Permitted Preliminary Works	The following elements comprise key noise and vibration embedded mitigation measures during PPW: • When works are taking place within close proximity to sensitive receptors, the screening of noise sources via the erection of temporary screens would be employed where practicable • As far as practicable, works will be programmed to avoid noisy operations occurring simultaneously in close proximity to the same sensitive receptor • As far as practicable, construction compounds must be located a minimum of	Embedded	**PPWEMP [APP/8.25.1]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		250m from residential receptors – Adhere to the core working hours of the Scheme which are Monday to Friday 07:00 – 18:00 and between 08:00 and 13:30 on Saturdays unless otherwise approved in advance by Breckland Council (except in case of 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 •			
	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	Embedded	**oCEMP [APP/7.6]** **oCTMP [APP/7.7]**	Contractor Applicant

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

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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 construction activities planned as part of the reporting of information to local residents. • Additionally, the works at the slip roads near "The Splashes" receptors will be timed so as to avoid undertaking these works during the period when JAFA Solar Farm cable route activities may be taking place within 200m from the "The Splashes" receptors' locations. • Measures in the **oCTMP [APP/7.7]** to control the movement of vehicles, access routes, hours of movement,			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		and types of vehicles to and from the Site. • The Applicant will collaborate with the undertaker of the adjacent proposed High Grove Solar Farm during the detailed design stage of the Scheme to explore mitigation measures across both projects and seek to achieve cumulative noise levels that do not exceed 35dB(A) at The Off Barn receptor during the operational phase of the Scheme.			
		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	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
		(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 (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			

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

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

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

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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 the Scheme's design for the operational phase: • Placement of National Grid Substation, Customer	Embedded	**oOEMP [APP/7.8]** **oOTMP [APP/7.9]**	Scheme Operator

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

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		and maintain the equipment, including noise 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	Additional	**oOEMP [APP/7.8]**	Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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 management of plant noise, as well as monitoring measures.			Scheme Operator
	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	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
		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 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	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
		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.			
Chapter 11: Soils and Agriculture	Preliminary Permitted Works	Soil management Method Statements will be produced by the Contractor(s) and will include but not be limited to consideration of the following: • Suitable conditions for when soil handling will be undertaken, for example avoiding handling of waterlogged soil • Specific measures for managing sensitive soils • Suitable protective surfacing where soil stripping can be avoided, based on sensitivity	Embedded	**PPWEMP [APP/8.25.1]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		of the environment and proposed works • Approach to reinstating soil, including measures to remove compaction, where required; and • Details of measures required for soil restoration. • In the event of the discovery of ground contamination during PPW, relevant best practice means would be implemented, where practicable. • A watching brief will be maintained throughout PPW to monitor for any unexpected contamination. A Discovery Strategy will be employed where contamination is discovered. • Should any previously unidentified risks to groundwater receptors emerge during PPW, a detailed Hydrogeological Risk			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Assessment will be undertaken in consultation with the EA. • The detailed design of the Scheme will take account of the locations of any abandoned utilities on Site to limit the potential for impacts associated with the PPW. The Scheme would be designed at this stage to avoid PPW activities in areas where abandoned utilities are identified, where practicable. • In the event that contaminated land is found at any time when carrying out PPW, which was not previously identified in the ES, then no further development (unless otherwise approved in writing by the relevant authorities) shall be carried out within the identifiable perimeters of the area in which the suspected contamination is located.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Such suspected contamination must be reported as soon as reasonably practicable to the local planning authority and, where necessary, the EA, and the undertaker must complete a risk assessment of the contamination in consultation with the local planning authority and, where necessary, the EA. • Where the undertaker determines that remediation of the contaminated land is necessary, a written scheme and programme for the remedial measures to be taken to render the land fit for its intended purpose must be submitted to and approved in writing by the local planning authority, following consultation with the EA. • Remediation must be carried out in accordance with that approved scheme.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Training will be provided to site personnel on: • The sensitivity of the groundwater and surface water environment within the Scheme, and the procedures to follow in the event of an accidental pollution event; and • The potential for contamination to be encountered, and the procedures to follow in the event it is encountered, should be employed for all personnel carrying out activities which may encounter soil and/or groundwater contamination.			
	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	Embedded	**oSMP [APP/7.13]** **oCEMP [APP/7.6]** **DPPC [APP/5.8.6]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		(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 • Adherence to the other measures detailed in the **oSMP [APP/7.13]**. • A Hydrogeological Impact Assessment (HIA) will be			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		produced for all trenchless works, in advance of commencement. • A watching brief will be maintained throughout the construction phase to monitor for any unexpected contamination. • A Discovery Strategy is to be employed where contamination is discovered. • In the event that contaminated land is found at any time when carrying out the construction works, which was not previously identified in the ES, then no further development (unless otherwise approved in writing by the relevant authorities) shall be carried out within the identifiable perimeters of the area in which the suspected contamination is located.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• If a bund is specified for the PAR Mitigation, material will be sourced from within the Site.			
	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]**. • In the event of damage to panels (for example due to wind damage), a full assessment will take place to determine if there has been any contamination, e.g. from broken panels. If there is contamination, the surface of the site will be removed, in a similar way to cutting turf, to	Embedded	**oSMP [APP/7.13]** ~~**oCEMP [APP/7.6]**~~ **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
		remove contaminants, and the ground will then be reseeded at an appropriate time of year, notably spring or autumn.			
	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
Chapter 12: Water Resources	Preliminary Permitted Works	The following elements comprise key water resources embedded mitigation measures during PPW: • A Pollution Prevention Plan (PPP) will be shared with Anglian Water, the local authority and the EA for their	Embedded	**PPWEMP [APP/8.25.1]**	Contractor Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		review and agreement prior to the commencement of the PPW. • A minimum of 10m from drainage ditches, watercourses, IDB maintained water courses, and marl pits will be observed for all infrastructure with the exception of fencing and watercourse crossing. • Temporary storage volume for storm runoff from the foundations and hardstanding areas would be provided via settlement lagoons. • If the volume of dewatering during PPW is likely to exceed the limit outlined in the EA's Temporary dewatering from excavations to surface water: RPS 261, then permits for dewatering will be applied for by the contractor. • Speed limits for vehicles transporting fresh concrete			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		will be set at a maximum of 15 miles per hour (mph) and will be continually monitored. Maximum vehicle load capacities will not be exceeded. Although tracks will be maintained in good condition, vehicle loads and/or speeds will be reduced if rougher surfaces are identified prior to track maintenance. • Appropriately sized spill kits will be provided at strategic locations, particularly where fresh concrete may be present. These will contain materials such as absorbent granules and pads, absorbent booms and collection bags. These are designed to halt the spread of spillage and will be deployed, as necessary, should spillage occur • In the event that plant and wheel washing is required, dry wheel wash facilities and			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		road sweepers will be provided to prevent (as far as is practicable) mud and debris being deposited on to the public roads. • Signage will be put in place to direct all vehicles to use wheel wash facilities. The track section between the wash facility and the public road will be surfaced with tarmac or clean hardcore and the area surrounding the facilities will be kept clean and in good condition. • The wheel wash facility, which will work on a closed cycle, or will utilise dry wheel cleaning, shall be operated throughout the PPW. Wheel wash facilities will be located within a designated area of hardstanding at least 50m from the nearest watercourse or 20m from the nearest surface drain.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• Water from the wheel wash is to be collected and tankered off site to a licensed waste carrier. • Should debris be spread on to the site access or public road adjacent to the Scheme, then road sweepers will be quickly utilised to clean affected areas. Loose debris will also be periodically removed from site tracks. • Along the Access Tracks, drainage channels on the downslope would shed track runoff to adjacent rough ground approximately every 30m, to attenuate flow and allow natural filtration to remove sediments. • All refuelling, oiling and greasing will take place in designated areas and on impermeable surface which provides protection to underground geology and groundwater and at least 10			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		m away from drains. Vehicles will not be left unattended during refuelling. • Fuel delivery vehicles servicing the Site will only be allowed as far as the temporary ~~construction~~PPW compounds. –The temporary ~~construction~~PPW compounds will include a bunded and impermeable refuelling area, and operations will only be permitted where they comply with the contractor's method statements. • In the event of a suspected pollution incident, the EA will be informed immediately. • No concrete will be poured on-site as part of PPW. Portable toilet facilities will be deployed for site personnel. The toilets will be emptied by a waste contractor thereby avoiding the need for onsite treatment and discharge and minimising			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		potential effects on drainage ditches and watercourses. • In the event that any potentially contaminating chemicals are required to be stored on site during the PPW, they will be kept within a secure bunded area to prevent any accidental spills from affecting hydrological resources. The bunds will have a capacity 110% of that of the fuel or chemical store, in accordance with the Control of Substances Hazardous to Health Regulations 2002, and the Control of Pollution (Oil Storage) (England) Regulations 2001. The bunded area will be within the PPW compounds and will be underlain by an impermeable ground membrane layer to reduce the potential pathways for contaminants to enter			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		watercourses and groundwater. The chemicals storage area will be kept secure to prevent theft or vandalism. A safe system for accessing the storage area will be implemented by the contractor. • Oil storage areas will be fully covered in order to prevent rainwater collecting within the bunded area. • Any plant or equipment containing hazardous or polluting substances would be suitably engineered to avoid the loss of these substances to the ground. Interceptor drip trays will be positioned under any stationary mobile plant to prevent contamination of the ground surface or water. Plant and site vehicles are to be well maintained and any vehicles leaking fluids must be repaired or removed from			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Site immediately. This will limit the potential for fugitive releases of polluting substances. Contractors will act in accordance with "EA - Approach to Groundwater Protection" and "National standard for sustainable drainage systems (SuDs)" guidance. Other guidance will be followed: • Control of Pollution Act 1974 • BS6031:2009 Code of Practice for Earthworks • BS10175:2016 Investigation of Potentially Contaminated Sites –Code of Practice. • Control of water pollution from construction sites. Guidance for consultants and contractors (C532). CIRIA, 2001 • Pollution Prevention for Businesses. Defra, 2016			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• Land Contamination Risk Management. Environment Agency, 2020 • Environmental Good Practice on Site Guide C811. CIRIA, 2023 • Guidance for Safe Intrusive Activities on Contaminated or Potentially Contaminated Land. British Drilling Association, 2020 • Control of Pollution (Oil Storage) (England) Regulations 2001 • Oil Storage Regulations for Businesses. Environment Agency and Defra, 2015 • Considerate Constructors Scheme. The code of considerate practice (CCS) PPW compounds will be sited outside Source Protection Zone 1, where practicable.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
	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. • Water from the wheel wash is to be collected and tankered	Embedded	**oCEMP [APP/7.6]** **DPPC [APP/5.8.5]**	Contractor Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		off site to a licensed waste carrier. • HDD for watercourses. • Hydrogeological Impact Assessment (HIA) will be produced for all trenchless works. • Drilling fluid breakout plans will be undertaken for foundations at the Scheme. • Locating the Scheme outside of utilities' protected zones and avoiding pipelines as part of detailed design of the Scheme. Additionally, pipelines will be 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			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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: • Single-span structures that do not interfere with the channel			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		(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. • The drainage system outfall in Work Nos. 2 – 4 will have an installed 'sentinel' monitoring system, to quickly identify if pollutants are found to be entering the drainage system and enable remedial action. • All photovoltaic arrays/panels will be certified as PFAS free. • 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			

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

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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. Access tracks will be served by trackside drainage ditches designed to the 1% AEP + 40% climate change event and be designed in accordance with SuDS principles and will not increase flood risk on-site or elsewhere. For Works Nos. 2 – 4 access tracks will be served by trackside drainage ditches designed to the 1% AEP + 40% climate change event and will include check			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		dams to prevent the rapid transfer of water downslope. All piling and foundation methods will be determined via a Foundation Works Risk Assessment (FWRA), following groundwater monitoring. The FWRA, Hydrogeological Impact Assessments (HIAs) and drilling fluid breakout plans will be undertaken for foundations at the Scheme, based on groundwater monitoring levels. The final choice of foundations for Work Nos. 2 – 4 will not indirectly interact with the underlying aquifer. During Continuous Flight Auger (CFA) piling, a watching brief will be employed to monitor for the loss of concrete during piling activities.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Any FWRA, HIAs, infiltration design, and any other ground or sub-surface activity assessments will be informed by a ground investigation. 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 decommissioning of the Scheme. A Pollution Prevention Plan (PPP) will also form part of a detailed CEMP. Integrated Conversion Units will be located within areas with suitable infiltration rates, as agreed with the LLFA. Standalone Conversion Units will not be located within areas of surface water flooding. BESS units will be located outside of pluvial flood pathways, following			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		post-development scenario flood modelling. Permanent drainage infrastructure will be designed in accordance with SuDS principles and will not increase flood risk on-site or elsewhere. A 3.5m wide strip consisting of either an access track or buffer strip will be provided to allow suitable access for maintenance activities associated with surface water attenuation / management features. The Customer Substation building will be located outside of pluvial flood pathways, following post-development scenario flood modelling. At the detailed design stage of the Scheme, the detailed foundation design for the Customer Substation will be reassessed against the refined highest groundwater elevation dataset			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		and monitoring from installed boreholes within the relevant Work Area. Integrated Conversion Units, Standalone Conversion Units, BESS, 33kV switch room, Ancillary Buildings, relay and control rooms and other water-sensitive electrical equipment will be installed with a minimum freeboard of 150mm above surrounding finished ground level. A freeboard allowance of 300mm will be applied to flood depths and the leading PV Solar Array edge. The National Grid Substation building will be located outside of pluvial flood pathways, following post-development scenario flood modelling. Permanent drainage infrastructure will be designed in accordance with SuDS principles and will not increase flood risk on-			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		site or elsewhere. At the detailed design stage of the Scheme, the detailed foundation design for the National Grid Substation will be reassessed against the refined highest groundwater elevation dataset and monitoring from installed boreholes within the relevant Work Area Drainage infrastructure relating to Works Area 7 will be designed to accommodate the 1% AEP event plus 40% climate change allowance. PAR Mitigation will not impede surface water flow pathways and will have SuDS designed to the 1% AEP + 40% climate change event.			
	Operational	The following embedded mitigation measures have been incorporated into the Scheme's design for the operational phase:	Embedded	**oOEMP [APP/7.8]** **DPPC [APP/5.8.5]**	Scheme Operator Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• 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 • The BESS will be served by a SuDS network designed to the 1% AEP event plus 40% climate change allowance plus an appropriate volume for firefighting water. • Access Tracks will be served by trackside drainage ditches designed to the 1% AEP + 40% climate change event 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			Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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, Customer Substation, and National Grid Substation. Any potentially contaminated water will be tankered off site to a licenced treatment facility. Drainage system outfalls, such as installing 'sentinel' monitoring systems, will be installed to quickly identify if pollutants are found to be entering the drainage system and enable remedial action. The containment area will be fully cleaned prior to any shut-off valves being re-opened. Water used to clean PV panels will either be sourced from a water tanker supplier or via rainwater harvesting within Work Nos. 2 – 3, with a small deionising plant within Work Nos. 2 – 3, as			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		deionised water will be used. Should rainwater harvesting be deemed viable, then any harvested rainwater will be managed under the same pollution prevention and control measures as the rest of Work Nos. 2 and 3, and would be tested in a laboratory to confirm the absence of pollutants prior to its use. Should the stored rainwater test positive for contaminants, then deionised water will be tankered to site for use in cleaning the PV panels. Hazardous or polluting substances must be stored, handled and disposed of in accordance with applicable regulations, and any plant or equipment containing these should be suitably engineered to avoid loss of these substances to ground.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
	Decommissioning	The following decommissioning measures will be implemented: • Cables up to 1.2m below the surface will be removed to enable future ploughing. Deeper cables may remain in situ where appropriate. For any buried cables proposed to be left in situ, an environmental risk assessment will be carried out and the Best Practicable Environmental Option (BPEO) will be implemented. Notwithstanding the findings of this risk assessment, where cables are buried under watercourses, ditches, roads and potentially sensitive vegetation, it is anticipated that the BPEO will be to leave the cable ducting (or the whole cables, if separate ducting is not used) in situ. • At the point of decommissioning, the	Embedded	**oDS [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
		Applicant will discuss with the landowner the extent of access tracks that the landowner wishes to retain to facilitate ongoing management of the land after the competition of decommissioning phase. Any access tracks that are not required to be retained by the landowner would be removed during the decommissioning phase of the Scheme. Any infrastructure that is to remain in place after the lifetime of the Scheme, such as the National Grid Substation and Grid Connection Infrastructure, will retain the drainage features which serve it. Details of how the removal of components of these systems will be designed and implemented without introducing new pollution risks will be provided in the detailed DS, once the			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Scheme has a detailed design.			
Chapter 13: Climate Change	Permitted Preliminary Works	Specific embedded mitigation measures include the following: • Reusing suitable infrastructure and resources already available within the Site where practicable to minimise the use of natural resources and unnecessary materials (e.g. reusing excavated soil for fill requirements). • Retention of existing vegetation as far as practicable. • Switching vehicles and plant off when not in use and ensuring construction vehicles conform to current UK emissions standards • Conducting regular planned maintenance of the	Embedded	**PPWEMP [APP/8.25.1]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		construction plant and machinery to optimise efficiency • Using equipment's cooling systems where necessary/adapting working practices and equipment used based on current weather conditions; and • The contractors will monitor weather forecasts and receive EA's flood alerts and plan works accordingly protecting workers and resources from any extreme weather conditions such as storms, flooding. • Fire suppression system on-site to rapidly action in case of fire.			
	Construction	Embedded mitigation measures will be implemented to reduce the GHG impact of the Scheme. Specific embedded mitigation measures include the following:	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
		Reducing waste: • 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 sourced products and materials with a higher recycled content where feasible. • Reusing suitable infrastructure and resources already available within the			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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> • Encouraging the use of lower carbon modes of transport by identifying and			

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

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

		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.
		• 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.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Additional climate change resilience measurements will be embedded within the Scheme: • 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.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
	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 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	Embedded	**oOEMP [APP/7.8]** **DPPC [APP/5.8.6]**	Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• 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 designed to the 1% AEP event plus 40% climate change allowance; and • Access Tracks will be served by trackside drainage ditches designed to the 1% AEP + 40% climate change event and will include check dams at regular intervals. •			
	Decommissioning	Similar measures to the construction phase will be	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
		developed prior to the decommissioning phase for the use of lower-carbon and more climate change resilient methods.			
	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	Permitted Preliminary Works	The following embedded mitigation measures have been incorporated into the Scheme's design for the PPW: • Recreational routes crossing or within the Order limits will be sought to be kept open during PPW, with any crossing or traffic conflict points overseen by banksmen for HGVs. Where closures are deemed to be necessary,	Embedded	**PPWEMP [APP/8.25.1]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		these will be temporary in nature and supported by appropriate amount of notice and suitable diversions. Any diversions to routes will be appropriately signed, and the duration and length of diversions will be optimised to minimise impacts on accessibility and desirability.			
	Construction	The following embedded mitigation measures have been incorporated into the Scheme's design for the construction phase: • 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	Embedded	**oCEMP [APP/7.6]** **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
		implement employment and skills measures designed to maximise local benefits from the Scheme. • The Applicant will, where feasible, continue to coordinate with other projects and relevant stakeholders in order to understand and, where possible, manage cumulative labour market pressures arising from the delivery of major infrastructure schemes. • The Applicant will, where feasible, continue to coordinate with other projects and relevant stakeholders in order to understand and, where possible, manage cumulative accommodation pressures arising from the delivery of major infrastructure schemes.			
	Operational	The following embedded mitigation measures have been	Embedded	**oLEMP [APP/7.11]**	Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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 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		**oESSCS [APP/7.15]**	Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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 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	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
		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.			
Chapter 15: Human Health	Permitted Preliminary Works	The following embedded mitigation measure have been incorporated into the Scheme's design for the PPW: • A Community Liaison Manager will be appointed, to whom any comments, concerns or complaints about the development of the Scheme can be raised, either directly by members of the public, or via elected representatives on parish or town councils, councillors, and Members of Parliament. This role will be used to continue open channels of communication between the	Embedded	**PPWEMP [APP/8.25.1]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		community and the operators of the Scheme as set up during the application and DCO process, and through the discharge of requirements process. In doing so, this will mitigate impacts on community identity and influence by allowing the community to continue to be involved in the development of their local environment as the Scheme is constructed.			
	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 that have the greatest potential to be affected by the Scheme	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
		• 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]** **oESSCS [APP/7.15]**	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.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• A Community Liaison Manager will be appointed as a temporary facilitator of communications between communities and the 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	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
		the impact on users of the PRoW network.			
Chapter 16: Other Environmental Matters (Air Quality)	Permitted Preliminary Works	Fugitive dust emissions associated with construction activities will be controlled through mitigation measures outlined in the **PPWEMP [APP/8.25.1]**. These measures cover communications, Site management, preparation and maintenance of the Site, operating vehicles and machinery, sustainable travel, operations, waste management, earthworks, and trackout. Vehicle and plant traffic emissions produced during the PPW, including exhaust and non-exhaust emissions, will be controlled through mitigation measures specified in the **PPWEMP [APP/8.25.1]**.	Embedded	**PPWEMP [APP/8.25.1]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
	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, 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).	Embedded	**oCEMP [APP/7.6]** **oCTMP [APP/7.7]**	Contractor
	Decommissioning	Dust emissions associated with decommissioning activities will be controlled through mitigation	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
		measures outlined in the **oDS [APP/7.10]**.			
Chapter 16: Other Environmental Matters (Arboriculture)	Permitted Preliminary Works	**Tree Removal** It is unlikely that tree removal will be required as part of PPW. However, should tree removal be required, trees of lower quality and life expectancy will be preferably removed over those of higher quality and life expectancy. Trees with a BS5837:2012 Quality Category of U shall be preferentially removed followed by Category C, B and A trees in that order of priority. Veteran trees will not be removed under any circumstances. If required, tree removals will be marked on-site by the Arboricultural Clerk of Works (ACoW), with final decisions made during detailed site design and cable trench micro-siting. Only qualified arboricultural contractors, in accordance with	Embedded	PPWEMP **[APP/8.25.1]**	Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		British Standard 3998:2010, will perform tree work. PPW workers will not perform tree removals unless qualified and specifically instructed. Prior to removal, legal restrictions, such as those protecting nesting birds and roosting bats, will be observed. Where trees are protected by a Tree Preservation Order (TPO), removal will only occur if deemed necessary to prevent obstruction or interference with the Scheme. The ACoW will be consulted to ensure compliance and explore alternatives before proceeding with works on TPO trees. **Tree Pruning** Prior to any necessary tree pruning, the ACoW will liaise with the construction contractor on the requirements for pruning and the ACoW will provide a specification for the pruning works required which will then be implemented			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		by a suitably qualified, insured and experienced arboricultural contractor working in accordance with British Standard 3998: 2010 'Tree Work – Recommendations'. Pruning works to veteran trees will be avoided and pruning will aim to prioritise trees of low quality (BS5837:2012 Category U and C trees) over trees of moderate or high quality (BS5837:2012 Category A and B trees). No tree works will be undertaken by construction workers unless qualified and instructed to do so. All tree pruning works will have due consideration for ecological mitigation. Temporary PPW compounds will be sited outside of the canopy spreads and Root Protection Areas (RPAs) of adjacent trees and woodlands.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Root loss/damage from excavation or soil compaction within RPAs In cases where construction activities must occur within RPAs, suitable ground protection will be installed to prevent soil compaction. The type of ground protection will vary based on the weight of traffic and will comply with BS5837:2012 recommendations, ranging from scaffold boards for pedestrian use to reinforced systems for heavy machinery. Throughout PPW, movement of machinery and storage of materials will be managed to prevent encroachment into RPAs. In the event that access is required, temporary ground protection will be employed to safeguard the tree roots. **Dust/sediment impacts to adjacent woodlands**			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Measures to limit the dust generating activities, such as when working in dry conditions. To mitigate the risk of airborne contamination, a dust suppression and management system will be implemented. Other sediment mitigation includes: Cut-off ditches or geotextile silt-fences, installed around excavations, exposed ground and stockpiles to prevent uncontrolled release of sediment All potentially contaminated waters (for example washdown areas, stockpiles and other areas of risk for water contamination) to have separate drainage; and Vehicles carrying material off-Site will be sheeted to prevent the spread of dust. **Damage to canopies/stems from machinery movements**			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		To mitigate damage to tree canopies and stems from machinery, tree pruning will be carefully managed and conducted by qualified arboricultural contractors under the guidance of the ACoW Pruning will aim to prioritise trees of low quality (BS5837:2012 Category U and C trees) over trees of moderate or high quality (BS5837:2012 Category A and B trees). No tree works will be undertaken by construction workers unless qualified and instructed to do so. All tree pruning works will have due consideration for ecological mitigation. Tree protection fencing will be installed around RPAs before construction begins, creating a CEZ to prevent machinery from entering protected areas. The fencing will remain in place throughout construction and only			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		be altered under ACoW supervision. If PPW activities must take place within RPAs, ground protection will be used to minimize soil compaction, and precautionary working methods such as hand digging will be employed. When tall machinery is working near the canopies of tree canopies the machine operator will be accompanied by a banksman who will work from ground level and ensure that moving machinery parts avoid the stems and branches of retained trees.			
	Construction	**Tree Removal** Tree removal will be avoided wherever practicable. Should tree removal be unavoidable, trees of lower quality and life expectancy will be preferably removed over those of higher quality and life	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
		expectancy. Trees with a BS5837:2012 Quality Category of U shall be preferentially removed followed by Category C, B and A trees in that order of priority. Veteran trees will not be removed under any circumstances. Tree removals will be marked on-site by the ACoW, with final decisions made during detailed site design and cable trench micro-siting. Only qualified arboricultural contractors, in accordance with British Standard 3998:2010, will perform tree work. Construction workers will not perform tree removals unless qualified and specifically instructed. Prior to removal, legal restrictions, such as those protecting nesting birds and roosting bats, will be observed. Where trees are protected by a TPO, removal will only occur if deemed necessary to prevent			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		obstruction or interference with the Scheme. The ACoW will be consulted to ensure compliance and explore alternatives before proceeding with works on TPO trees. **Tree Pruning** Prior to any necessary tree pruning, the ACoW will liaise with the construction contractor on the requirements for pruning and the ACoW will provide a specification for the pruning works required which will then be implemented by a suitably qualified, insured and experienced arboricultural contractor working in accordance with British Standard 3998: 2010 'Tree Work – Recommendations'. Pruning works to veteran trees will be avoided and pruning will aim to prioritise trees of low quality (BS5837:2012 Category U and C trees) over trees of moderate or high quality (BS5837:2012 Category A and B			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		trees). No tree works will be undertaken by construction workers unless qualified and instructed to do so. All tree pruning works will have due consideration for ecological mitigation. Temporary construction compounds will be sited outside of the canopy spreads and Root Protection Areas (RPAs) of adjacent trees and woodlands. **Root loss/damage from excavation or soil compaction within RPAs** Tree protection fencing and/or perimeter fencing will be installed prior to construction to establish a Construction Exclusion Zone (CEZ) around RPAs. The fencing will consist of wire mesh and wooden posts or other protective fencing, and will prevent entry of machinery, materials, or spoil into the protected areas and be checked by the ACoW prior to			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		construction near trees commencing. Temporary construction compounds will be sited outside of the RPAs of adjacent trees and woodlands. In cases where construction activities must occur within RPAs, suitable ground protection will be installed to prevent soil compaction. The type of ground protection will vary based on the weight of traffic and will comply with BS5837:2012 recommendations, ranging from scaffold boards for pedestrian use to reinforced systems for heavy machinery. Micro-siting techniques will be used to minimize root disturbance, with cable routing designed to avoid RPAs of retained trees. If work within RPAs is unavoidable, the ACoW will supervise and guide			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		precautionary measures such as hand digging and root pruning. HDD will be utilised to avoid damaging roots, maintaining a minimum depth of 1m to bypass the majority of roots, which typically exist in the upper 600mm of soil. All HDD machinery will be sited outside the canopies and RPAs of retained trees. All machinery used for trenchless solutions (e.g. HDD) will be situated outside the RPAs of retained trees. Entry and exit points for the trenchless solutions will be sited more than 15m from retained tree stems. Trenchless solution depths will exceed 1m under RPAs. Throughout construction, movement of machinery and storage of materials will be managed to prevent encroachment into RPAs. In the event that access is required, temporary ground protection will			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		be employed to safeguard the tree roots. **Root loss/damage from fencing installation** Around Solar PV arrays, permanent perimeter fencing will be installed using a typical 'deer fence' comprising of wire mesh with wooden or metal posts, driven into the ground with a standard post driver. In most cases, the alignment for permanent fencing will form a CEZ to exclude construction activity. Where this specification of fencing will not be used, it may be necessary to install TPF to an appropriate specification. This fencing will be installed before the commencement of other construction activity. It is preferred that all fencing will be installed with the desired buffer from retained trees, and outside RPAs.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Where TPF is required, the specification should be fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees. Weatherproof signage (rigid plastic or Foamex foamboard) will be attached to the fencing with words such as 'Construction Exclusion Zone – No Access'. **Root loss/damage from Access Track installation** The construction of access tracks within RPAs should follow a 'no-dig' methodology, utilising a cellular confinement system to provide a load-bearing surface and reduce the likelihood of ground compaction. **Dust/sediment impacts to adjacent woodlands** Measures to limit the dust generating activities, such as			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		when working in dry conditions. To mitigate the risk of airborne contamination, a dust suppression and management system will be implemented. Other sediment mitigation includes: Cut-off ditches or geotextile silt fences, installed around excavations, exposed ground and stockpiles to prevent uncontrolled release of sediment All potentially contaminated waters (for example washdown areas, stockpiles and other areas of risk for water contamination) to have separate drainage. Any contaminated waters would be taken away by tanker from the Solar PV Sites; and Vehicles carrying material off-Site will be sheeted to prevent the spread of dust. **Damage to canopies/stems from machinery movements**			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		To mitigate damage to tree canopies and stems from machinery, tree pruning will be carefully managed and conducted by qualified arboricultural contractors under the guidance of the ACoW Pruning will aim to prioritise trees of low quality (BS5837:2012 Category U and C trees) over trees of moderate or high quality (BS5837:2012 Category A and B trees). No tree works will be undertaken by construction workers unless qualified and instructed to do so. All tree pruning works will have due consideration for ecological mitigation. Tree protection fencing will be installed around RPAs before construction begins, creating a CEZ to prevent machinery from entering protected areas. The fencing will remain in place throughout construction and only			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		be altered under ACoW supervision. If construction activities must take place within RPAs, ground protection will be used to minimise soil compaction, and precautionary working methods such as hand digging will be employed. HDD or other non-intrusive methods will be used where necessary to avoid disturbing roots, with entry and exit points positioned outside RPAs. When tall machinery is working near the canopies of tree canopies the machine operator will be accompanied by a banksman who will work from ground level and ensure that moving machinery parts avoid the stems and branches of retained trees.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
Chapter 16: Other Environmental Matters (Glint and Glare)	Construction and Operation	PAR Mitigation will be implemented prior to the construction of any part of Work No. 1(a) within the areas shown as Mitigation Area 1, Mitigation Area 2 and Mitigation Area 3 on **RAF Marham Mitigation Areas Plan [REP5-070].** If a fence is specified for the PAR Mitigation it will consist of non-reflective materials. Within the first year of operation, a glint and glare complaints procedure will be established in consultation with Breckland Council. PAR Mitigation will not be located in parallel on both sides of River Road or Petticoat Road in order to avoid the effect of funnelling. Consist of either a fence and/or a bund.	Additional	**DPPC [APP/5.8.6]** **oOEMP [REP5-066]**	Contractor Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Will be implemented prior to the construction of any part of Work No. 1(a) within the areas shown as Mitigation Area 1, Mitigation Area 2 and Mitigation Area 3 on RAF Marham Mitigation Areas Plan **[APP/8.26.1].** Will not be removed until after all above ground infrastructure has been removed within the three PAR Mitigation Areas, as shown on the RAF Marham Mitigation Areas Plan **[APP/8.26.1].** Not impede surface water flow pathways and will have SuDS designed to the 1% AEP + 40% climate change event. Traffic movements to facilitate the construction will be within the cap of daily construction movements secured within the outline Construction Traffic Management Plan **[APP/7.7.4].** If a bund is specified:			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• the slopes of the bund will not exceed 1:3 and will be seeded with grass only; and • material will be sourced from within the Site. Bunds will be specified instead of a fence in locations where there is no intervening PV Tables located between the position of the PAR Mitigation bund and the visual receptors users of Petticoat Drove, River Road and Keepers Cottage. Transitions between a bund and a fence will not occur directly opposite and in direct line of sight from users of Petticoat Drove and River Road. Oblique views of a transition from existing field accesses or gaps in vegetation would be acceptable. Fencing will not be located along the crest of bunds. If a fence is specified:			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• Clearances above ground or mammal gates will be included within the fence to permit the passage of wildlife. • Will consist of non-reflective materials. • Will not replace the deer fence around the perimeter of Solar PV Arrays consisting of wire mesh and wooden or metal posts. Will be sited no closer than 4m to the security fencing. Externally finished to be in keeping with the prevailing surrounding environment. The exact colour will be subject to manufacturer specifications and agreed with the relevant planning authority prior to construction but will be carefully selected in subdued, non-reflective tones to sit as discreetly as practicable within the landscape.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
	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. 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.	Embedded	**oLEMP [APP/7.11]** **oCEMP [APP/7.6]**	Contractor Applicant
Chapter 16: Other Environmental Matters (Telecommunications, Utilities and Television Receptors)	Permitted Preliminary Works	The following embedded mitigation measures have been incorporated into the Scheme design to identify and manage utilities interactions. These include the following precautionary measures:	Embedded	**PPWEMP [APP/8.25.1]**	Contractor Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• The Applicant would liaise with all utility providers with assets in the area in regard to timelines, activities, proximity to assets and management measures. • During the PPW, there may be safe working required beneath any overhead lines in line with National Grid's technical guidance note 287 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; and • Measures in relation to safe working near buried utilities, particularly gas pipelines, will be in place at all phases of the Scheme. For example, safety measures set out in National Grid guidance documents for			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		third parties working in the vicinity of high pressure gas pipelines and associated installations.			
	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	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
		Scheme 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.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		During all phases of the Scheme there will be safe working beneath any 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)	Permitted Preliminary Works	The following embedded mitigation measures have been incorporated into the Scheme's design for the PPW:	Embedded	**PPWEMP [APP/8.25.1]**	Contractor Applicant

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• The contractor will consider the objectives of sustainable resource and waste management and seek to use material resources efficiently, reduce waste at source, reduce waste that requires final disposal to landfill and apply the principles of the waste hierarchy. This would include, where reasonably practical, segregation of construction materials on-site for appropriate re-use, recycling and recovery with landfill as a last resort. • All waste management will be undertaken in accordance with the relevant regulations and waste would be transported by licensed waste hauliers to waste management sites which hold the necessary regulatory authorisation and/or permits for those wastes consigned to them.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		To minimise impacts of waste on the surrounding environment, the following measures would be implemented: • Damping down of surfaces during spells of dry weather and brushing/water spraying of heavily used hard surfaces/access points across the Site as required • Burning of waste or unwanted materials will not be permitted onsite • All hazardous materials including fuels, chemicals, cleaning agents, solvents and solvent containing products to be properly sealed in containers at the end of each day prior to storage in appropriately protected and bunded storage areas • All construction workers will be required to use appropriate personal protective			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		equipment whilst performing activities on-site • Any waste effluent will be tested and, where necessary, disposed of at a correctly licensed facility by a licensed specialist contractor/s; and • Materials requiring removal from the Site will be transported using licensed carriers and records will be kept detailing the types and quantities of waste moved, and the destinations of this waste, in accordance with the relevant regulations.			
	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	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
		reduces on-site construction waste, with waste produced during unit manufacturing 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			

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

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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, 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. • The Duty of Care to ensure waste is described and classified falls with the			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		contractor. As such, all waste will be appropriately classified in accordance with the Environment Agency WM3 Technical Guidance or any other technical assessment or guidance applicable at the time that achieves the same standard, before a suitable route for recovery or disposal can be identified.			
	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	Embedded	**oOEMP [APP/7.8]**	Scheme Operator Contractor

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		developed and agreed with the authority prior to commencement of the operation • The Duty of Care to ensure waste is described and classified falls with the Contractor. As such, all waste will be appropriately classified in accordance with the Environment Agency WM3 Technical Guidance or any other technical assessment or guidance applicable at the time that achieves the same standard, before a suitable route for recovery or disposal can be identified. • 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			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		• 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 • Batteries must be separated from WEEE streams so they can be recovered, recycled, or disposed of in accordance with the Waste Batteries and			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		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. • The operational Waste Management Strategy must ensure that hazardous waste handling capabilities are assessed based on up-to-date information at the time of drafting prior to peak replacement works (here meaning the replacement of all PV panels and BESS modules) being undertaken. **BESS Management** • End-of life or damaged BESS units are to be electrically disconnected from the system			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		when identified as requiring replacement. • A specific risk assessment will be conducted prior to the removal of the damaged or defective units to ensure the safety of employees and contractors. Damaged or defective units will be inspected and placed in an approved protective container prior to being transported from Site, to ensure against any risk of contaminants entering ground or surface water. • End-of life batteries awaiting regular replacement will be stored in-situ, which provides contamination bunding and surface-water runoff protections associated with the BESS enclosure. Batteries that are removed from the BESS will be, where practicable, returned to the			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		battery manufacturer for repair/ refurbishment. • End-of-life BESS infrastructure is controlled under The Waste Batteries and Accumulators Regulations 2009. These Regulations require battery producers to receive, sort, and suitably handle batteries and deliver to an approved battery treatment operator for treatment and recycling. All end-of-life battery management activities will be undertaken in compliance with these Regulations or any other applicable at the time.			
	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,	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
		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 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			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		requirements at the time of decommissioning. • The Duty of Care to ensure waste is described and classified falls with the contractor. As such, all waste will be appropriately classified in accordance with the Environment Agency WM3 Technical Guidance, or any other technical assessment or guidance applicable at the time that achieves the same standard, before a suitable route for recovery or disposal can be identified • The Decommissioning Waste Management Strategy must ensure that both non-hazardous and hazardous waste handling capabilities are assessed based on up-to-date information at the time of drafting prior to decommissioning works being undertaken.			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Specifically in relation to the management of BESS, the following measures will be implemented: • A specific risk assessment will be conducted prior to the removal of the damaged or defective units to ensure the safety of employees and contractors. Damaged or defective units will be inspected and placed in an approved protective container prior to being transported from Site, to ensure against any risk of contaminants entering ground- or surface water; • End-of life batteries will be stored in situ, which provides contamination bunding and surface-water runoff protections associated with the BESS enclosure. Batteries that are removed from the BESS will be, where practicable, returned to the			

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		battery manufacturer for repair/ refurbishment; and • End-of-life BESS infrastructure is controlled under The Waste Batteries and Accumulators Regulations 2009. These require battery producers to receive, sort, and suitably handle batteries and deliver to an approved battery treatment operator for treatment and recycling. All end-of-life battery management activities will be undertaken in compliance with these Regulations or any other applicable at the time.			
	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,	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
		operation and decommissioning phases will mean it will be managed by appropriately 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.			
Chapter 16: Other Environmental Matters (Electromagnetic Fields)	Construction, Operation and Decommissioning	The Applicant will make available to the public clear information on electromagnetic field (EMF) levels and compliance through the community contact.	Embedded	**oCEMP [APP/7.6]** **oOEMP [APP/7.8]**	Applicant
Chapter 16: Other Environmental Matters	Construction	The minimum components of the site fire safety systems will be identified in the detailed CEMP and these components must be in	Embedded	**oCEMP [APP/7.6]**	Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
(Major Accidents and Disasters		place and confirmed by the Scheme operator to the Environment Agency as operational before installation of the BESS, including drainage infrastructure (including a penstock), firefighting water supply, and access roads. An emergency response plan will be developed in consultation with the relevant local authority emergency planning officer, emergency services including the local fire service, as well as the Environment Agency in relation to responding to flood warnings and events. The plan will detail the procedures for responding to incidents and emergencies on site, and any reporting			
	Operation	An emergency response plan will be developed in consultation with the relevant local authority emergency planning officer, emergency services including the local fire service, as well as the	Embedded	**oOEMP [REP5-066]**	Scheme Operator

Environmental Statement (ES) Chapter	Phase of Development	Commitments (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		Environment Agency in relation to responding to flood warnings and events. The plan will detail the procedures for responding to incidents and emergencies on-site, and any reporting.			

THE DROVES

SOLAR FARM