



THE DROVES
SOLAR FARM

The Drovers Solar Farm

PEIR Commitments Register

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1 Commitments Register

1.1 Introduction

- 1.1.1 This document sets out the schedule of environmental mitigation measures that will be adopted during the Construction, Operation and Decommissioning Phases of the Scheme.
- 1.1.2 Table 1-1 sets out the measures included within the PEIR and used to inform the preliminary environmental assessment; this register will be updated following design refinement and detailed assessments, and any updated measures will be outlined within the ES.



Table 1-1 Preliminary Information Report Commitments Register

PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
Chapter 6: Landscape and Visual	Construction	<p>The Construction Environmental Management Plan (CEMP) will include the following mitigation measures in relation to landscape and visual effects:</p> <ul style="list-style-type: none"> • A pre-construction tree survey will be required prior to starting construction works to re-establish the baseline. This survey will inform the tree protection zones to be applied during construction. • Site hoarding and construction exclusion zones will be introduced around trees and other 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) will be adopted incorporating best practice guidance set out in British Standard 5837:2012 Trees in Relation to Design, Demolition and Construction which will ensure retained trees and other vegetation are not adversely affected during the construction process • The use of visual screening, such as hoardings, will be implemented for more sensitive visual receptors in proximity to the Site, including residential and Public Right of Way (PRoW) receptors that have the greatest potential to be affected by the Scheme • Ensuring a tidy and neat working environment and covering stockpiles in accordance with best practice measures • Temporary lighting during construction required to enable safe working in the hours of darkness will be designed as far as reasonably practical to avoid light spill onto areas beyond the Site. Construction lighting will include directional fittings and will be restricted to the construction working hours set out in Chapter 5: Scheme Description; and • 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. 	Embedded	DCO Requirements: CEMP	External Contractor appointed by the Applicant
Chapter 6: Landscape and Visual	Decommissioning	<p>Prior to the commencement of any phase of decommissioning a Decommissioning Environmental Management Plan (DEMP) and a Decommissioning Traffic Management Plan (DTMP) will be submitted to and approved by the relevant local planning authority. The DEMP and DTMP will be in accordance with the oDEMP and oDTMP. This will ensure the potential construction and decommissioning impacts associated with landscape character and visual amenity are minimised.</p>	Embedded	DCO Requirements: DEMP DTMP	Applicant



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
<p>Chapter 6: Landscape and Visual</p>	<p>Construction and Operation</p>	<p>The following elements comprise key design landscape and visual embedded mitigation measures:</p> <ul style="list-style-type: none"> Retention of the existing landscape fabric 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 south of Bartholomews Hills Plantation 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 In addition to the establishment of new hedgerow and hedgerow trees, the embedded mitigation also includes the retention, gapping up and enhancement of existing hedgerow within the Site. New planting species would be native, locally prevalent and also include a mixture of deciduous and evergreen species to provide year-round screening. Alongside the existing hedgerow and trees within the Site’s context, the gapping up of hedgerow with native trees and whips would provide visual screening of the Scheme from visual receptors within the wider study area, and from PRow and droves within the Site itself Setting back the Scheme from key existing 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 Chapter 5: Scheme Description. 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 underneath the PV panels which would enhance biodiversity within the Site; and Recreational enhancements such as 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, of approximately 5.8km in total, which would link to the existing PRow network within the Study Area to provide recreational benefits. This total number can be broken down to approximately 1.2km new offsite permissive route provision and approximately 3.8km new onsite permissive route provision. 	<p>Embedded</p>	<p>DCO Requirements: Detailed design approval Landscape and Ecological Management Plan (LEMP)</p>	<p>Applicant</p>



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
Chapter 7: Ecology and Biodiversity	Construction and Operation	<p>Implementation of appropriate buffers for retention of valuable habitats and ecological features.</p> <p>The development buffers will be secured with fencing at the outer extents of the buffers to separate the Solar PV site, with individual panels sited no closer than 4m to the secure fencing.</p> <p>The development buffers for existing and proposed features are:</p> <ul style="list-style-type: none"> • 8m from Hedgerows • 10m from Hedgerows with Trees • 10m from Tree Lines • 10m (unless otherwise specified by an Arboricultural Consultant) to Individual Trees and Tree Groups (Including those with potential bat roosting features) • 15x width of stem diameter at breast height to Veteran and/or Ancient Trees • 15m to Woodland • 6m to Ditches • 10m to Ponds (eDNA Negative for Great Crested Newt) • Case by case for Schedule 1 Bird Nests • Case by case for Bat Roosts • 30m to Badger Setts; and • 10m to Non-statutory Sites (including the River Road Roadside Nature Reserve (RNR) ref. U33086). 	Embedded	DCO Requirements: LEMP Detailed design approval	Applicant
Chapter 7: Ecology and Biodiversity	Construction and Operation	<p>Other embedded mitigation which will further limit development effects on ecological receptors during the Construction and Operations Phases include:</p> <ul style="list-style-type: none"> • Designated site access and transit routes have been identified (Volume 1, Chapter 9: Transport and Access), 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 (Volume 1, Chapter 9: Transport and Access). 	Embedded	DCO Requirements: CEMP Operational Environmental Management Plan (OEMP)	External Contractor appointed by the Applicant



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
Chapter 7: Ecology and Biodiversity	Construction and Decommissioning	Specific measures and approaches will be incorporated into the CEMP and DEMP to prevent any potential run-off or pollutants leaving the Site, including along hydrological pathways that could otherwise reach the River Narr SSSI designation and direct pathways (hydrological and dust) to non-statutory designations including River Road RNRs. Pollution prevention measures will be focussed on the interception of contaminants at source in line with standard construction and decommissioning processes.	Embedded	DCO Requirements: CEMP DEMP	External Contractor appointed by the Applicant
Chapter 7: Ecology and Biodiversity	Construction and Decommissioning	Measures such as the use of temporary construction/protection fencing and working safeguards will be incorporated at the Construction and Decommissioning Phases of the Scheme, covering the protection of woodland at boundaries, working in extremely dry or wet weather, storage and use of fuels and chemicals, and the movement of vehicles and plant.	Embedded	DCO Requirements: CEMP DEMP	Applicant
Chapter 7: Ecology and Biodiversity	Construction, Operation, and Decommissioning	Additional measures will be implemented to prevent the spread of exotic invasive species (including Variegated Yellow Archangel and Three-cornered Garlic which have been recorded within the Study Area).	Embedded	DCO Requirements: LEMP CEMP DEMP	Applicant External Contractor appointed by the Applicant
Chapter 7: Ecology and Biodiversity	Construction, Operation, and Decommissioning	New habitats will be provided as part of the Scheme with aims to improve biodiversity gains, where this does not conflict with construction, operation and decommissioning function of the Scheme. Examples of habitat creation and enhancement measures to be implemented as part of the Scheme include: <ul style="list-style-type: none"> • Creation of new grassland habitats including wildflower grassland • The gapping up of hedgerows and treelines with additional native species • Implementation of a rotational management strategy for hedgerows; and • The selective thinning and management of vegetation associated with ponds and ditches. 	Embedded	DCO Requirements: LEMP Detailed design approval	Applicant
Chapter 7: Ecology and Biodiversity	Operational	Ongoing management of habitats will be undertaken in order to maximise value for biodiversity throughout the operational phase of development, including in particular field boundary vegetation (hedgerows and trees) along with grassland areas.	Embedded	DCO Requirements: LEMP	Applicant
Chapter 7: Ecology and Biodiversity	Construction and Decommissioning	Adherence to day-light 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.	Embedded	DCO Requirements: CEMP	External Contractor appointed by the Applicant



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
				DEMP	
Chapter 7: Ecology and Biodiversity	Construction and Decommissioning	General construction safeguards in order to prevent accidental killing and injury of mammals including Badger will be implemented during the construction and decommissioning phases of the Scheme.	Embedded	DCO Requirements: CEMP DEMP	External Contractor appointed by the Applicant
Chapter 7: Ecology and Biodiversity	Operational	The detailed fencing strategy for the site will be sensitively designed to allow permeability across the Site by Badger, such that freedom of movement will remain, and connectivity to foraging resources within the wider landscape will remain while created habitats develop. Where appropriate, Badger 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 Badger.	Embedded	DCO Requirements: Detailed design approval	Applicant
Chapter 7: Ecology and Biodiversity	Operational	Mitigation and compensation measures in respect of Skylark and Curlew will be proposed, including provision of new open grassland areas, along with long term provision of Skylark plots within arable land outside of the proposed Solar PV Site.	Embedded	DCO Requirements: LEMP	Applicant
Chapter 7: Ecology and Biodiversity	Construction and Decommissioning	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 construction works have commenced.	Embedded	DCO Requirements: CEMP DEMP	External Contractor appointed by the Applicant
Chapter 7: Ecology and Biodiversity	Construction and Decommissioning	In order to avoid potentially significant effects on receptors during the Construction and Decommissioning 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 additional mitigation measures are put in place during the Construction and Decommissioning Phase, to include the following: <ul style="list-style-type: none"> • Prior to works commencing, a full site investigation will be undertaken to identify any potential sources of contamination and advise on appropriate safeguards to be implemented during construction works • Erection of tree protection fencing around retained woody vegetation, hedgerows and trees in accordance with BS5837:2012 	Embedded	DCO Requirements: CEMP DEMP	External Contractor appointed by the Applicant



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		<ul style="list-style-type: none"> Erection of temporary fencing around construction areas, protecting retained habitats of ecological value Damping down of potential sources of dust Fires will only be lit in secure compounds and not allowed to remain lit during the night; and Implementation of engineering safeguards as part of construction works to control surface water run-off and avoid contamination of receptors. This could include measures such as the use of a temporary silt traps in order to form an intercept for silt and other potential pollutants. 			
Chapter 7: Ecology and Biodiversity	Construction and Decommissioning	<p>A number of general additional safeguarding measures will be set out in relation to faunal species, including:</p> <ul style="list-style-type: none"> All contractors will be briefed as to the possible presence of protected and notable faunal species within the Site, with particular reference to the implications of legislation and licensing 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. This could simply be in the form of a roughened plank of wood placed in the trench as a ramp to the surface. This is particularly important if the trench fills with water 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. Badgers will readily adopt such mounds as setts. So as to avoid the adoption of any mounds, these will be kept to a minimum and will be subject to inspections by site contractors with consideration given to temporarily fencing any such mounds to exclude Badgers Food and litter will not to be left within the working area overnight Storage of chemicals and hazardous materials in line with best practice guidelines, ensuring that they are secure, well away from the site boundaries and cannot be accessed or knocked over by roaming animals To minimise adverse effects as a result of lighting during the construction phase, temporary lighting will be minimised, wherever practical. Where required for health and safety, security or other reasons, it will be positioned 	Embedded	DCO Requirements: CEMP DEMP	External Contractor appointed by the Applicant



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		<p>so as to minimise light spill on to hedgerows and other boundary features; and</p> <ul style="list-style-type: none"> Disturbance from noise will be minimised by the adoption of good working practice. 			
Chapter 7: Ecology and Biodiversity	Construction	<p>Given the known presence of Badger setts in the area it is proposed that updated Badger survey work is carried out prior to commencement of the Construction Phase in order to confirm the current status of Badgers at the Site and inform any detailed mitigation (including the need for works to be undertaken under licence should any active setts be affected at that time).</p> <p>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 and decommissioning activities), it is anticipated that such setts would need to be closed under licence, with suitable mitigation measures/compensation provided in line with relevant licence requirements.</p>	Additional	DCO Requirements: CEMP	Applicant External Contractor appointed by the Applicant
Chapter 7: Ecology and Biodiversity	Construction and Decommissioning	<p>Should survey work confirm the presence of reptile species at the Site, measures will be implemented to avoid killing or injury of reptile species during the construction and decommissioning phases. Precise details of mitigation measures will be dependent on the numbers and locations of reptiles within the site, and accordingly, will be drawn up following the completion of further reptile surveys, albeit given the nature and extent of arable habitats, this group is likely to be absent across much of the Site.</p> <p>It is anticipated that mitigation would centre on the removal of suitable terrestrial habitats following precautionary methods of working, including the ecologically supervised, phased clearance of habitat, preceded by a toolbox talk. Where appropriate, a reptile mitigation strategy will be included within the CEMP and DEMP.</p>	Additional	DCO Requirements: CEMP DEMP	Applicant External Contractor appointed by the Applicant
Chapter 7: Ecology and Biodiversity	Operational	<p>Discussions are ongoing with landowners and Natural England on the extent of land required for the creation of additional habitat for ground nesting birds, to ensure that the loss of habitat is mitigated through the final design of the Scheme. Whilst these discussions are ongoing, and the exact quantum of habitat provided is subject to direction from Natural England, the Applicant is committed to providing sufficient habitat for ground nesting birds to ensure there are no significant adverse residual effects.</p>	Embedded	DCO Requirements: LEMP	Applicant
Chapter 8: Cultural Heritage and Archaeology	Construction	<p>For direct impacts to archaeological remains that may be present within the Site, embedded mitigation would be based on their level of significance and potential contribution to regional research frameworks but could involve avoidance of sensitive archaeological remains, the option to install concrete blocks as ballast avoiding the need for driven and screw anchored installation</p>	Embedded	DCO Requirements: LEMP	Applicant



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		of Ground Mounted PV modules, therefore minimising ground disturbance in archaeologically sensitive areas. Historic England will be consulted on embedded mitigation measures with regards to the setting of heritage assets within the Study Area.			
Chapter 8: Cultural Heritage and Archaeology	Construction	A suitable evaluation, to be developed in consultation with the Norfolk Historic Environment, will, if required, be undertaken prior to ES submission to determine the character and significance of any such remains present. Suitable mitigation measures will be embedded into the design such as removal of panels from sensitive areas of the Scheme in response to this. Details of these mitigation measures will be provided in the CEMP.	Embedded	DCO Requirements: CEMP	Applicant External Contractor appointed by the Applicant
Chapter 8: Cultural Heritage and Archaeology	Decommissioning	Embedded mitigation measures, such as the location of decommissioning compounds, methodology for removing piles etc., will be set out within the DEMP.	Embedded	DCO Requirements: DEMP	External Contractor appointed by the Applicant
Chapter 9: Transport and Access	Construction	Construction access routes to the Scheme have been identified through a review of the Local Road Network (LRN) to identify suitable locations in highway safety terms, including being sufficient to accommodate Heavy Goods Vehicles (HGVs) and the provision of appropriate visibility splays. The use of existing access points onto the LRN has been prioritised to minimise the environmental impacts associated with the creation of new points of vehicular access, such as the removal of hedgerows. Where there is not a reasonable existing vehicle access location within the vicinity of the relevant area of the Scheme, a new vehicle access is proposed that complies with all relevant highway safety requirements.	Embedded	DCO Requirements: Detailed design approval	Applicant
Chapter 9: Transport and Access	Construction	Further details on the individual access points will be provided within the Transport Assessment that will support the Environmental Statement (ES). The routing for construction traffic will be secured through the Construction Traffic Management Plan (CTMP).	Embedded	DCO Requirements: CTMP	External Contractor appointed by the Applicant
Chapter 9: Transport and Access	Construction	Use of internal Construction Compounds for the Scheme where deliveries can be made from the Strategic Road Network, directly from the A1065. From the compounds, deliveries will be distributed out via smaller, local vehicles to the area of works where possible.	Embedded	DCO Requirements: CTMP	External Contractor appointed by the Applicant
Chapter 9: Transport and Access	Construction	Internal access routes will be provided within the Site to minimise vehicles needing to use the LRN where possible.	Embedded	DCO Requirements:	Applicant



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
				Detailed design approval	
Chapter 9: Transport and Access	Construction	Permanent improvements will be made to assist with the movement of vehicles within the Site, which will be outlined in the TA and ES that will support the DCO Application.	Embedded	DCO Requirements: Detailed design approval	Applicant
Chapter 9: Transport and Access	Construction	The Scheme will seek to employ the use of a shuttle bus service for staff who will park within the relevant construction compound which will contain a designated parking area, to remove staff trips from the LRN. It is also anticipated that a shuttle service will be provided directly from the accommodation of staff to the area of works across the Scheme, which will be subject to phasing of the construction works.	Embedded	DCO Requirements: Travel Plan	External Contractor appointed by the Applicant
Chapter 9: Transport and Access	Construction	The CTMP will include details on the following: <ul style="list-style-type: none"> • Required access routes from the LRN • Scheme entry and exit points, including compound locations; and • Measures to mitigate the impact of construction vehicles. 	Embedded	DCO Requirements: CTMP	External Contractor appointed by the Applicant
Chapter 10: Noise and Vibration	Construction	The good practice measures detailed below will be implemented as part of a site-specific Noise Management Plan (NMP) to manage the effects of noise and vibration during construction activities, to be included within the CEMP, and will be required of all contractors: <ul style="list-style-type: none"> • 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 Breckland Council (except in case of an emergency). Those activities that are unlikely to give rise to noise audible at the Site boundary, or light vehicle traffic accessing the Site such as that involved with staff mobilisation, may continue outside of the stated hours • The embedded mitigation contained in the NMP will include the commitment to liaise directly with local residents, and the wider community, e.g., notifying them when particular activities, potentially generating elevated noise or vibration levels in relative proximity, will occur and their duration; and • 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. This includes: selection of quieter equipment where reasonably practicable; all plant not in use to be switched 	Embedded	DCO Requirements: CEMP	External Contractor appointed by the Applicant



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		off; minimising use of tonal reverse alarms and using broadband alarms where practicable; mobile plant and stationary plant items to be routed or located to maximise separation distance from noise-sensitive receptors (where practicable), accounting for site-specific constraints; all equipment used would be maintained in good working order; and associated noise attenuation such as engine casing and exhaust silencers shall remain fitted at all times.			
Chapter 10: Noise and Vibration	Operational	Maintenance during the operational phase including ad-hoc replacements of defective Solar PV Panels will be carried out on a small scale using light service vehicles, therefore, no HGV movements will be used in the maintenance of the Scheme. Programmed replacements and upgrades of PV panels or BESS components will also be phased.	Embedded	DCO Requirements: Operational Traffic Management Plan (OTMP)	Applicant
Chapter 10: Noise and Vibration	Operational	Measures to monitor and maintain equipment, including noise production, and a complaints procedure for members of the public to report noise disturbance at residential properties will be contained within the OEMP.	Embedded	DCO Requirements: OEMP	Applicant
Chapter 10: Noise and Vibration	Construction	Where practicable, trenchless works that are likely to result in significant noise effects at nearby residential receptors will be restricted to daytime working hours on weekdays (i.e. 07:00 to 18:00, Monday to Friday). Local residents shall be notified in advance of any night-time construction activities likely to generate significant noise levels, e.g. HDD or other trenchless works within 300 m. Trenchless works will be completed in the shortest practical timescale. No trenchless work will be carried out at locations within 100 m of a residential property (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 50 m from any residential property, these measures are specific to Keepers Cottage only as no other receptor is within 100 m of the Site boundary.	Additional	DCO Requirements: CEMP	External Contractor appointed by the Applicant
Chapter 10: Noise and Vibration	Construction	For residential properties located within 300 m of trenchless work areas that could experience significant night-time noise levels due to night-time works (i.e., noise levels in excess of 55 dB LAeq at night for more than 1 week, corresponding to a high to medium impact), the following measures will be investigated: <ul style="list-style-type: none"> • Use of alternative techniques such as micro-bore or pipe jacking • Crossing points requiring potential HDD and associated work areas will be identified and located to maximise distance from dwellings as much as reasonably practicable; • Residents likely to be significantly affected by noise from trenchless works will be kept informed of the likely period during which the work will take 	Additional	DCO Requirements: CEMP	External Contractor appointed by the Applicant



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		<p>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</p> <ul style="list-style-type: none"> 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 pumps, shall be silenced or suitably shielded to ensure that the night-time lower threshold of 45 dB LAeq 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). 			
Chapter 10: Noise and Vibration	Construction	Where percussive piling is undertaken for the foundations of the Solar PV Arrays within 400 m of sensitive receptors, this should be restricted to no more than two periods of four hours each with at least one hour of no piling between these four-hour periods and restricted to the hours of 07:00 to 18:00 Monday to Friday and 08:00 to 13:30 on Saturdays. In addition, piling works within 130 m of Keepers Cottage will be further controlled to reduce noise levels to not exceed 65 dB LAeq over the working day, through use of quieter piling techniques, and if possible, use of localised screening or a combination of these measures.	Additional	DCO Requirements: CEMP	External Contractor appointed by the Applicant
Chapter 10: Noise and Vibration	Construction	Although likely impact on PRoW users is not considered significant, it would be beneficial to inform users of the PRoW of any percussive piling or earthworks planned as part of the reporting of information to local residents.	Additional	DCO Requirements: CEMP	External Contractor appointed by the Applicant
Chapter 10: Noise and Vibration	Operational	The design of the Scheme should be developed to generally maximise the distance between the proposed noise-generating equipment and noise-sensitive residential receptors wherever reasonably practicable. Selection of the final mechanical and electrical plant would be made on the basis of different considerations including noise.. Detailed design of the Scheme would require total rated noise levels L_{Ar} , including the applicable character correction, not to exceed an operational noise limit of 35 dB L_{Ar} at residential receptors, as	Additional	DCO Requirements: Detailed design approval	Applicant



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		assessed in line with BS 4142. Noise levels on PRow will also be controlled not to exceed a noise level of 55 dB L_{Aeq} .			
Chapter 10: Noise and Vibration	Decommissioning	As the Decommissioning Phase will result in similar effects in some instances as the Construction Phase for the relevant activities, such as removal of the piles near Keepers Cottage, similar additional mitigation measures outlined for construction activities close to that receptor (such as localised screening) can be employed for the decommissioning phase where relevant.	Additional	DCO Requirements: DEMP	External Contractor appointed by the Applicant
Chapter 11: Soils and Agriculture	Construction, Operational, and Decommissioning	A Soil Management Plan (SMP) will provide the framework through which good practice soil management measures will be implemented for the whole duration of the Scheme and minimise potential effects on soils and agricultural land quality.	Embedded	DCO Requirements: SMP	External Contractor appointed by the Applicant
Chapter 11: Soils and Agriculture	Construction and Decommissioning	The SMP will include measures to mitigate adverse effects to soils (e.g. compaction). It is considered the most important measure to avoid travelling over or moving soils when wet, and the SMP measures will include the methodology for determining the suitability of soils to being handled, and controls and measures to minimise soil impacts and prevent adverse effects.	Embedded	DCO Requirements: SMP	External Contractor appointed by the Applicant
Chapter 12: Water Resources	Construction and Operation	<p>The following mitigation measures relating to the hydrological environment are embedded into the design of the Scheme:</p> <ul style="list-style-type: none"> • 10 m watercourse edge buffers for all construction works (i.e. solar PV panels and associated infrastructure, construction compounds, BESS and substations) with the exception of drain crossings for cables and access tracks • 10 m buffer of Internal Drainage Board maintained watercourses • The Scheme will utilise existing access road and tracks already in place where practicable, and this will help to minimise ground disturbance and requirement for further drain crossings • Any tracks to be implemented will comprise a 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; and • The Scheme has been sequentially designed to locate all electrically sensitive infrastructure (e.g., the substation compounds, inverters and transformers) outside of Flood Zones 2 and 3 to mitigate against the risk of flooding. 	Embedded	DCO Requirements: Detailed design approval	Applicant



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
Chapter Resources 12: Water	Construction, Operational, Decommissioning and	The CEMP will describe 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 be part of a final CEMP.	Embedded	DCO Requirements: CEMP	External Contractor appointed by the Applicant
Chapter Resources 12: Water	Construction, Operational, Decommissioning and	As the Anglian Water region is identified as 'seriously water stressed' in the Environment Agency's (EA) 2021 classification of water stressed areas, water used for the Scheme will not be sourced through a new abstraction and will be sourced offsite.	Embedded	DCO Requirements: CEMP OEMP	External Contractor appointed by the Applicant
Chapter Resources 12: Water	Construction, Operational, Decommissioning and	The PPP will outline measures to be employed to avoid or mitigate potential pollution for all phases of the Scheme and will also include an Incident Plan to be followed should a pollution event occur. This plan will be produced following consultation and agreement with the EA and all appropriate personnel working on the construction site will be trained in its use.	Embedded	DCO Requirements: CEMP	External Contractor appointed by the Applicant
Chapter Change 13: Climate	Construction	<p>Embedded mitigation measures include the following and will be included in the CEMP and CTMP, as relevant:</p> <ul style="list-style-type: none"> 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 Site where practicable to minimise the use of natural resources and unnecessary materials (e.g. reusing excavated soil for fill requirements) 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 to optimise efficiency Encouraging the use of lower carbon modes of transport by identifying and communicating local bus connections and pedestrian and cycle access routes to/from the Scheme to all construction staff, and providing appropriate facilities for the safe storage of cycles 	Embedded	DCO Requirements: CEMP CTMP	External Contractor appointed by the Applicant



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		<ul style="list-style-type: none"> Switching vehicles and plant off when not in use and ensuring construction vehicles conform to current EU emissions standards; and Implementing a shuttlebus to transport employees to the sites. 			
Chapter Change 13: Climate	Construction, Operational, Decommissioning and	<p>Climate change resilience measures are embedded within the Scheme, particularly in relation to flood risk. These measures are outlined below:</p> <ul style="list-style-type: none"> Any tracks to be implemented will comprise a graded Type 2 or 3 washed / clean aggregate. Where new access points are required the bellmouth will typically be asphalt and would be limited in extent. This limits the potential for increased surface water runoff rates and sedimentation effects during rainfall events. The Scheme has been sequentially designed to locate all electrically sensitive infrastructure (e.g., the substation compounds, inverters and transformers) outside of Flood Zones 2 and 3 to mitigate against the risk of flooding Existing access tracks would be retained to limit the requirement to develop new access which can disturb soils and lead to compaction, where practicable. Where new access tracks are required, they would be designed to avoid crossing drainage ditches, where practicable An oCEMP accompanying the DCO application, will describe water management measures to control surface water runoff and drain hardstanding and other structures during the construction phase of the Scheme. This will form part of a PPP to be implemented for the Scheme Access to the Scheme during construction would be taken from new permeable or existing farm tracks accessed from the local highway network. This limits the potential for increased surface water runoff rates and sedimentation effects during construction/decommissioning; and A Water Management Plan (which will form part of a detailed CEMP) will include details of pre-construction, construction, and post-construction water quality monitoring. This will be based on a combination of visual observations and reviews of the Environment Agency’s automatic water quality monitoring network. 	Embedded	Detailed design approval DCO Requirements: CEMP	Applicant External Contractor appointed by the Applicant
Chapter Change 13: Climate	Operational	<p>The following embedded mitigation measures will be in place for operation:</p> <ul style="list-style-type: none"> With regards to flood risk, the individual Sites which make up the Scheme have been assessed on the best available data for each Site. Based on the assessed flood risk the following embedded design has been implemented 	Embedded	DCO Requirements: OEMP	Applicant



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		<ul style="list-style-type: none"> • Critical infrastructure within the Scheme (the conversion units, substations, and energy storage compounds) will be sequentially located where possible to an area with a “Low probability of flooding” and therefore in land assessed as having a less than 1 in 1,000 annual probability of river or sea flooding (<0.1%) • Non-flood sensitive infrastructure forming the wider Scheme (PV arrays and cabling) will be sequentially located outside the 1 in 100 plus climate change annual probability extent (1% +CC) or where this is not practicable restricted to areas which experience less than 1 m depth of flooding during the same event • Flexibility for either tracker or fixed panels has been built into the EIA. The solar panels will have metal frames that hold solar panels in rows, either secured via metal post driven into the ground at a depth of 1.5-3.5m or weighed down using concrete feet (detailed in the Chapter 4: Scheme Description) • For both fixed and tracker panels, all sensitive and electrical equipment on the solar panel will be elevated by the legs (including the solar panel face itself) • Tracker panel units will be mounted on raised frames and will therefore, be raised above surrounding ground levels and fitted with a tracking system. During times of flooding, solar panels may be stowed by the tracking system algorithm onto a horizontal plane, to the minimum post height of 2.5 m above ground level. This ensures that all sensitive and electrical equipment on the solar panel is raised to a minimum of 2.5 m above ground level in the horizontal position • 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 OEMP • Monitoring weather forecasts and the news for Environment Agency flood warnings, relevant weather warnings, and water levels of the local waterways. This will be included within the OEMP; and • Battery Energy Storage System (BESS) systems would include Heating, Ventilation and Cooling (HVAC) systems and these would be contained within the individual equipment containers. 			



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
<p>Chapter 14: Socio-Economics and Human Health</p>	<p>Construction, Operational, Decommissioning and</p>	<p>The following embedded mitigation measures are integrated into the design of the Scheme that are relevant to socio-economics and human health:</p> <ul style="list-style-type: none"> • 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 (as will be secured within the Construction Environmental Management Plan (CEMP)) • Retention of the existing landscape fabric 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 south of Bartholomews Hills Plantation • 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 • In addition to the establishment of new hedgerow and hedgerow trees, the embedded mitigation also includes the retention, gapping up and enhancement of existing hedgerow within the Site. New planting species would be native, locally prevalent and also include a mixture of deciduous and evergreen species to provide year round screening. Alongside the existing hedgerow and trees within the Site's context, the gapping up of hedgerow with native trees and whips would provide visual screening of the Scheme from visual receptors within the wider study area, and from PRow and droves within the Site itself • Setting back the Scheme from key landscape features within and adjacent to the Site Boundary, such as trees, hedgerow and woodland. The minimum offsets/buffers included within the Concept Masterplan (Volume III, Appendix 2.1), from existing landscape features are outlined fully in Chapter 5: Scheme Description. 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 planting along the margins of the Scheme. Potential new planting is also proposed underneath the Solar PV panels which would enhance biodiversity within the Site • 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. In addition to this, a number of new permissive routes are proposed, of approximately 5.0km in total, which would link to the existing PRow network within the Study Area to provide 	<p>Embedded</p>	<p>DCO Requirements: Detailed design approval CEMP LEMP</p>	<p>Applicant External Contractor appointed by the Applicant</p>



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		<p>recreational benefits. This total number can be broken down to approximately 1.2km new offsite permissive route provision and approximately 3.8km new onsite permissive route provision; and</p> <ul style="list-style-type: none"> Internal access routes will be provided within the Site to minimise vehicles needing to use the Local Road Network (LRN) where possible. The details of this will be secured through the detailed design of the Scheme. 			
Chapter 14: Socio-Economics and Human Health	Construction, Operational, and Decommissioning	<p>The following sets out a longlist of potential initiatives that are currently being explored, drawing on precedent from similar schemes. This list provides an early indication of the Applicant’s ambition and areas of focus. As the Scheme evolves, and in response to ongoing consultation, the initiatives will be refined and developed further, with consideration given to which are the most achievable and the mechanisms for securing their delivery:</p> <ul style="list-style-type: none"> Collaborate with council initiatives such as the Boost Programme, Careers Hub, and the Breckland Skills Assembly Collaborate with other projects to coordinate on skills and employment commitments Partner with local education institutions Engage with graduate trainee programmes Work with STEM organisations Delivery of construction and operational apprenticeships Green energy construction courses Offer educational outreach on solar energy Offer site tours during the operational phase for schools and colleges Offer summer internship and research programmes Sponsoring secondary or college students Source main construction services from local contractors and sub-contractors Advertising jobs on local job boards Provide local jobs Green energy awareness campaigns; and Skills workshops for local residents. 	Additional	DCO Requirements: Employment and Skills Strategy (ESS)	Applicant



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
<p>Chapter 15: Other Environmental Matters</p>	<p>Construction and Decommissioning</p>	<p>The following measures are proposed to mitigate potential dust impacts:</p> <ul style="list-style-type: none"> • Develop and implement a stakeholder communications plan that includes community engagement before work commences on site • Display the name and contact details of person(s) accountable for air quality and dust issues on the site boundary. This may be the environment manager/engineer or the site manager • Display the head or regional office contact information • Develop and implement a Dust Management Plan (DMP), which may include measures to control other emissions, approved by the Local Authority. The DMP may include monitoring of dust deposition, dust flux, real-time PM10 continuous monitoring and/or visual inspections • Record all dust and air quality complaints, identify cause(s), take appropriate measures to reduce emissions in a timely manner, and record the measures taken • Make the complaints log available to the Local Authority when asked • Record any exceptional incidents that cause dust and/or air emissions, either on- or off- site, and the action taken to resolve the situation in the log book • Hold regular liaison meetings with other high risk construction sites within 250 m of the site boundary, to ensure plans are co-ordinated and dust and particulate matter emissions are minimised. It is important to understand the interactions of the off-site transport/deliveries which might be using the same strategic road network routes • Undertake daily on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to the Local Authority when asked. This should include regular dust soiling check of surfaces such as street furniture, cars, window sills within 100 m of the site boundary, with cleaning to be provided if necessary • Carry out regular site inspections to monitor compliance with the DMP, record inspection results, and make an inspection log available to the Local Authority when asked • Increase the frequency of site inspections by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions 	<p>Embedded</p>	<p>DCO Requirements: CEMP DEMP</p>	<p>External Contractor appointed by the Applicant</p>



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		<ul style="list-style-type: none"> • Agree dust deposition, dust flux, or real-time PM10 continuous monitoring locations with the Local Authority. Where possible, commence baseline monitoring at least three months before work commences on site or, if it is a large site, before work on a phase commences • Plan site layout so that machinery and dust causing activities are located away from receptors, as far as is possible • Erect solid screens or barriers around dusty activities or the site boundary that are at least as high as any stockpiles on site • Fully enclose site or specific operations where there is a high potential for dust production and the site is active for an extensive period • Avoid site runoff of water or mud • Keep site fencing, barriers and scaffolding clean using wet methods • Remove materials that have a potential to produce dust from site as soon as possible, unless being re-used on site. If they are being re-used cover as described below • Cover, seed or fence stockpiles to prevent wind whipping • Ensure all vehicles switch off engines when stationary – no idling vehicles • Avoid the use of diesel or petrol-powered generators and use mains electricity or battery powered equipment where practicable • Impose and signpost a maximum-speed-limit of 15 mph on surfaced and 10 mph on unsurfaced haul roads and work areas (if long haul routes are required these speeds may be increased with suitable additional control measures provided, subject to the approval of the nominated undertaker and with the agreement of the Local Authority, where applicable) • Produce a Construction Logistics Plan to manage the sustainable delivery of goods and materials • Implement a Travel Plan that supports and encourages sustainable travel (public transport, cycling, walking and car-sharing) • Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems • Ensure an adequate water supply on the site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible and appropriate 			



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		<ul style="list-style-type: none"> • Use enclosed chutes and conveyors and covered skips • Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate • Ensure equipment is readily available on site to clean any dry spillages, and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods • Avoid bonfires and burning of waste materials • Avoid scabbling (roughening of concrete surfaces) if possible • Ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place • Use water-assisted dust sweeper(s) on the access and local roads, to remove, as necessary, any material tracked out of the site. This may require the sweeper being in continuous use • Avoid dry sweeping of large areas • Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport • Inspect on-site haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable • Record all inspections of haul routes and any subsequent action in a site log book • Install hard surfaced haul routes, which are regularly damped down with fixed or mobile sprinkler systems, or mobile water bowsers and regularly cleaned • Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable) • Ensure there is an adequate area of hard surfaced road between the wheel wash facility and the site exit, wherever site size and layout permits; and • Access gates to be located at least 10 m from receptors where possible. 			
<p>Chapter 15: Other Environmental Matters</p>	<p>Operational</p>	<p>The following additional mitigation measures are being considered by the Applicant's design team for the most appropriate to mitigate the potentially significant effect:</p>	<p>Additional</p>	<p>DCO Requirements: LEMP</p>	<p>Applicant</p>



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		<ul style="list-style-type: none"> • Mature planting along this section, sufficient in height to mitigate significant impacts, established by the start of the Operational Phase • Short-term installation of opaque fencing in the required areas (which would be in place until the vegetation reaches the required height) • Programming single-axis panels to backtrack to an angle where solar reflections are not possible during the time where effects are predicted; and • Providing fixed south facing panels only in the areas where the reflections are predicted to occur from. <p>The additional mitigation strategy will utilise the options listed above and include one or multiple of the options to mitigate the effect. The Applicant is committed to mitigating the short-term potentially significant effect on Road Users along the A1065 and will continue to develop and consult on the optimum strategy.</p>		Detailed design approval	
Chapter 15: Other Environmental Matters	Construction	The Scheme will aim to minimise and eliminate waste streams wherever possible. Opportunities for reusing material resources will be pursued. When reuse and prevention are not feasible, waste will be managed according to the waste hierarchy and detailed in the CEMP. The CEMP will incorporate industry-standard practices and control measures to address environmental impacts during construction, such as dust control and on-site material and waste management.	Embedded	DCO Requirements: CEMP	External Contractor appointed by the Applicant
Chapter 15: Other Environmental Matters	Operational	During operation and replacement, the Scheme will prioritise waste prevention, followed by preparation for reuse, recycling, and recovery, with landfill disposal as the last resort, in line with the waste hierarchy. A Site Waste Management Plan (SWMP) will be developed as part of the OEMP. The SWMP, to be prepared before construction begins, will detail the efficient management, storage, and legal disposal of materials during the Operational Phase, including the maintenance and replacement. It will also outline the aims, objectives, and ongoing management responsibilities, including practices for management and storage, and set targets for waste reduction, landfill diversion, and reuse.	Embedded	DCO Requirements: OEMP	Applicant
Chapter 15: Other Environmental Matters	Operational	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.	Embedded	DCO Requirements: OEMP	Applicant
Chapter 15: Other Environmental Matters	Operational	It is anticipated that the Scheme will generate Waste from Electrical and Electronic Equipment (WEEE) during both operation and maintenance phases, and a significant amount during decommissioning. This includes photovoltaic panels, batteries, substation equipment, and smaller quantities from supporting	Embedded	DCO Requirements: OEMP	Applicant External Contractor appointed by the Applicant



PEIR Chapter	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Delivery and Responsibility
		electrical infrastructure. These items will be recovered and recycled by an authorised re-processor in compliance with the WEEE Regulations 2013.			
Chapter 15: Other Environmental Matters	Decommissioning	During the Decommissioning Phase, PV panels and related built infrastructure, ancillary infrastructure, substations and energy storage 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, recycling and recovering of these items will be detailed in the DEMP.	Embedded	DCO Requirements: DEMP	External Contractor appointed by the Applicant
Chapter 15: Other Environmental Matters	Decommissioning	The decommissioning of the Scheme will adhere to the measures and procedures outlined in a DEMP. The DEMP will contain a Decommissioning Resource Management Plan (DRMP), which will be developed by the appointed contractor and will set out how measures to manage the disposal of waste may be required in accordance with relevant legislative and policy requirements at the time of decommissioning.	Embedded	DCO Requirements: DEMP	External Contractor appointed by the Applicant



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