

# **Green Hill Solar Farm**

## **Preliminary Environmental Information Report**

### **Chapter 26 Commitments Register**

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## 26 Commitments Register

### 26.1 Introduction

26.1.1 This document sets out the schedule of environmental mitigation measures that will be adopted during the construction, operation and decommissioning phases of the Scheme.

26.1.2 Table 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 26.1 Preliminary Environmental Information Report Commitments Register**

PEIR Chapter and Commitment Reference	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Responsibility for Compliance and Monitoring
Chapter 7: Climate Change EN010170 – CC - 01	Construction and Decommissioning Phase	<p>Aspects to reduce GHG impact of the Scheme include:</p> <p>Reducing waste by:</p> <ul style="list-style-type: none"> <li>Increasing recyclability by segregating construction waste to be re-used and recycled where reasonably practicable;</li> <li>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;</li> <li>Reusing suitable infrastructure and resources already available within the Sites where possible to minimise the use of natural resources and unnecessary materials (e.g. reusing excavated soil for fill requirements);</li> </ul> <p>General practices:</p> <ul style="list-style-type: none"> <li>Adopting the Considerate Constructors Scheme (CCS) to assist in reducing pollution, including GHGs, from the Scheme by employing good industry practice measures;</li> <li>Conducting regular planned maintenance of the construction plant and machinery to optimise efficiency.</li> </ul> <p>Reducing vehicle emissions:</p> <ul style="list-style-type: none"> <li>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;</li> <li>Switching vehicles and plant off when not in use and ensuring construction vehicles conform to current EU emissions standards.</li> </ul>	Embedded	<p>Construction Environmental Management Plan</p> <p>Construction Traffic Management Plan</p> <p>Decommissioning Environmental Management Plan</p>	Contractor
Chapter 7: Climate Change	All phases	Using equipment's cooling systems where necessary/adapting working practices and equipment used based on current weather conditions.	Embedded	<p>Construction Environmental Management Plan</p> <p>Operational Environmental Management Plan</p> <p>Decommissioning Statement</p>	Contractor
Chapter 7: Climate Change	Construction and Decommissioning	Monitoring weather forecasts and the news for Environment Agency flood warnings, relevant weather warnings, and water levels of the local waterways.	Embedded	<p>Construction Environmental Management Plan</p> <p>Decommissioning Statement</p>	Applicant / Operator
Chapter 7: Climate Change	Operation	Battery Energy Storage System (BESS) systems would include heating, ventilation and cooling (HVAC) systems and these would be contained within the individual equipment containers	Embedded	Approval of detailed design	Applicant
Chapter 7: Climate Change	Operation	All key BESS and substation infrastructure is located outside of the Flood Zones, and there are no permanent buildings on site.	Embedded	Approval of detailed design	Applicant



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Chapter 7: Climate Change	Construction and Decommissioning	Health and safety plans and risk assessments developed for construction and decommissioning activities will be required to account for potential climate change impacts on workers, such as flooding and heatwaves.	Embedded	Construction Environmental Management Plan Decommissioning Environmental Management Plan	Applicant/ Contractor
Chapter 8: Landscape and Visual	All phases.	<p>It is proposed that infrastructure associated with the Scheme will be located outside of the buffers listed below with the exception of internal access tracks where exclusion from the buffers is unavoidable.</p> <p>Preliminary ecological buffer principles include:</p> <ul style="list-style-type: none"> <li>• 8m from a ditch or watercourse of any kind;</li> <li>• 10m from at least one sign of otter or abundant evidence of Water Vole in the ditch or watercourse;</li> <li>• 10m from outlier badger setts;</li> <li>• 10m from individual trees or groups of trees (unless arboriculture surveys indicate the root protection area is required);</li> <li>• 15m from ancient woodland;</li> <li>• 15m from some minor watercourses (depending on ecological value);</li> <li>• 10m from ponds (with no great crested newts);</li> <li>• 30m from a major watercourse;</li> <li>• 30m from a main badger setts; and</li> <li>• 50m from ponds containing great crested newts.</li> </ul> <p>Other buffers including:</p> <ul style="list-style-type: none"> <li>• 15m from public rights of ways (PRoW) (Public Footpath, Bridleway);</li> <li>• 9m from Internal Drainage Board (IDB) drain;</li> <li>• 6m from services;</li> <li>• 5m from the site boundary; and</li> <li>• 4m from internal offset from fence to panel.</li> </ul>	Embedded	Approval of detailed design. Landscape and Ecological Management Plan.	Applicant
Chapter 8: Landscape and Visual	All Phases	<p>Preliminary mitigation measures include:</p> <ul style="list-style-type: none"> <li>• Connective woodland planting;</li> <li>• Mixed grassland/ wildflower planting;</li> <li>• Enhanced riparian native planting;</li> <li>• Reinforced road-side screening;</li> <li>• Hedgerow reinforcement; and</li> <li>• Strategic green corridor.</li> </ul>	Embedded	Indicative masterplan Approval of detailed design. Concept design parameters. Landscape and Ecological Management Plan.	Applicant
Chapter 9: Ecology and Biodiversity	All phases	Retention of most valuable habitats and protection of habitats with buffer zones during all phases of the Scheme.	Embedded	Approval of detailed design.	Applicant





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		<p>Preliminary buffers from field boundary habitats have been recommended according to a set of ecological importance criteria. Buffers are measured from the outer edge of the hedgerow, root protection area of the tree canopy (in the case of woodland or individual trees) or the banktop of the watercourse.</p> <ul style="list-style-type: none"> <li>• 8m minimum from ditches and any trees with 'low' suitability for roosting bats.</li> <li>• 10m minimum from ditches with signs of water vole, or trees with 'moderate' suitability for roosting bats.</li> <li>• 20m minimum from woodland, ponds and moderate watercourses (depending on ecological value).</li> <li>• 30m minimum from ancient woodland, major watercourses (e.g. rivers) and 'main', subsidiary or 'annexe' badger setts.</li> <li>• Other, bespoke buffers will be agreed around bat roosts and the nesting sites of Schedule 1 birds as appropriate.</li> </ul>		Landscape and Ecological Management Plan.	
Chapter 9: Ecology and Biodiversity	Construction	<p>The CEMP will contain the following provisions:</p> <ul style="list-style-type: none"> <li>• Detail on the location and specification of protective fencing to be installed prior to the onset of construction. It is anticipated that the specified buffer zones will drive these locations.</li> <li>• Additional safeguarding pollution prevention measures on the use of fuels and other contaminants in proximity to boundary features and other sensitive habitats.</li> <li>• Measures to limit dust-generating activities, such as when working in dry conditions.</li> <li>• Measures to limit the mobilisation of sediments and run-off, such as when working in very wet conditions or the use of silt fencing when working in ditches.</li> <li>• Construction personnel will receive a Toolbox Talk detailing the presence of sensitive ecological features at or close to the Sites and will be informed that no materials should be stored, or vehicles drive, through buffer zones.</li> <li>• An Ecological Clerk of Works will be designated at the onset of the construction phase, which will provide ecological supervision during the completion of any works which have the potential to impact protected and notable species, as appropriate.</li> <li>• The CEMP will detail how vehicles, plant and materials will be transported to the construction zone, as well as other standard environmental protection measures that will apply to the construction phase, such as dust suppression, pollution control measures and protection of adjacent habitats/watercourses from surface runoff.</li> </ul>	Embedded	Construction Environmental Management Plan	Applicant/ Contractor
Chapter 9: Ecology and Biodiversity	Construction	Access tracks will be routed with ecological sensitivity in mind, along existing farm tracks, and will be sited to avoid designated buffer zones wherever possible.	Embedded	Approval of detailed design	Applicant
Chapter 9: Ecology and Biodiversity	Construction and Operation	<p>Access for construction and operation will utilise existing field entrances and gaps in hedgerows and other linear habitats wherever possible. Hedgerow losses associated with the construction phase only will be reinstated.</p> <p>Translocation of hedgerow sections will be explored as a further mitigation option where appropriate.</p>	Embedded	Approval of detailed design	Applicant / Contractor
Chapter 9: Ecology and Biodiversity	Construction and Operation	Site lighting will be designed as far as reasonably practicable to minimise potential for light spillage outside the Sites and Cable Corridor, particularly towards valuable ecological habitats.	Embedded	Approval of detailed design Construction Environmental Management Plan	Applicant



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		Standard good practice measures would be employed to minimise light spill, including glare, during construction. A sensitive lighting strategy will specify where and how any artificial lighting will be used, which will serve to mitigate adverse impacts on ecological receptors such as bats.		Operational Environmental Management Plan	
Chapter 9: Ecology and Biodiversity	Construction	The cable route will be sited to best avoid impacts on ecological features as identified during the desk study and ecological fieldwork. This will include observing appropriate buffers from sensitive boundary features wherever possible. Precautionary Method of Working will be employed, to include the supervision of an Ecological Clerk of Works where necessary, sensitive ecological timing of works, horizontal directional drilling (HDD) beneath particularly sensitive features.	Embedded	Approval of detailed design Construction Environmental Management Plan	Applicant / Contractor
Chapter 9: Ecology and Biodiversity	Operation	Landscape planting will be provided and maintenance will be carried out	Embedded	Landscape and Environmental Management Plan	Applicant / Contractor
Chapter 9: Ecology and Biodiversity	Operation	Management of habitats under operational arrays by grazing or cutting	Embedded	Landscape and Environmental Management Plan	Operator
Chapter 10: Hydrology, Flood Risk and Drainage Chapter 7: Climate Change	All phases	8m buffers have been established around watercourses, including Main Rivers and Ordinary Watercourses.	Embedded	Approval of detailed design	Applicant / Operator
Chapter 10: Hydrology, Flood Risk and Drainage Chapter 7: Climate Change	Construction and Decommissioning	The separation of construction and decommissioning groundworks from drainage ditches will be maximised.	Embedded	Construction Environmental Management Plan  Decommissioning Environmental Management Plan	Operator / contractor
Chapter 10: Hydrology, Flood Risk and Drainage Chapter 7: Climate Change	All Phases	Existing access tracks, where practicable, will be retained, limiting the requirement to develop new access which can disturb soils and lead to compaction. Where new access tracks are required they have been designed to avoid crossing drainage ditches, where practicable.	Embedded	Approval of detailed design	Applicant
Chapter 10: Hydrology, Flood Risk and Drainage Chapter 7: Climate Change	All phases	Water management measures to control surface water run-off and drain hardstanding and other structures during the construction, operation and decommissioning of the Scheme. This will form part of a Pollution Prevention Plan (PPP) to be implemented for the Scheme.	Embedded	Construction Environmental Management Plan  Operational Environmental Management Plan  Decommissioning Environmental Management Plan	Operator / Contractor
Chapter 10: Hydrology, Flood Risk and Drainage Chapter 7: Climate Change	Construction	A Water Management Plan will include details of pre-construction, during the construction phase 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	Construction Environmental Management Plan	Contractor



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Chapter 10: Hydrology, Flood Risk and Drainage Chapter 7: Climate Change	All phases	Access to the Sites will 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.	Embedded	Construction Traffic Management Plan	Operator / Contractor
Chapter 10: Hydrology, Flood Risk and Drainage Chapter 7: Climate Change	Operation	Critical infrastructure within the Scheme (the conversion units, substations and BESS compounds) have been sequentially located within Zone 1, 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%);	Embedded	Approval of detailed design	Applicant
Chapter 10: Hydrology, Flood Risk and Drainage Chapter 7: Climate Change	Operation	Non-flood sensitive infrastructure forming the wider Scheme (PV arrays and cabling) have been 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.	Embedded	Approval of detailed design	Applicant
Chapter 10: Hydrology, Flood Risk and Drainage Chapter 7: Climate Change	Operation	Flexibility for either tracker or fixed panels have been built into the EIA. Foundations are most likely to be galvanised steel poles driven into the ground. These will either be piles rammed directly into the ground or rammed into a pre-drilled hole, or a pillar attaching to a steel ground screw depending on ground conditions.  For both fixed and tracker panels all sensitive and electrical equipment on the solar panel will be elevated by the legs so that it is no less than 0.6 m above the surrounding peak flood level.  Tracker panel units will be mounted on raised frames (usually raised a minimum of 0.4m when on maximum rotation angle) 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 2.3 m above ground level. This ensures that all sensitive and electrical equipment on the solar panel is raised to a minimum of 2.3 m above ground level in the horizontal position.	Embedded	Approval of detailed design	Applicant
Chapter 10: Hydrology, Flood Risk and Drainage Chapter 7: Climate Change	Operation	Utilising permeable surfacing (Type 2 aggregate) for the Site access, ensuring that surface water is retained where it falls and is allowed to infiltrate to subsoils as per the existing situation.	Embedded	Construction Environmental Management Plan	Operator / Contractor
Chapter 10: Hydrology, Flood Risk and Drainage Chapter 7: Climate Change	Operation	Installation of linear infiltration trenches around Critical infrastructure (the substations and energy storage compounds) or any other required hardstanding such as concrete bases.	Embedded	Approval of detailed design	Operator / Contractor
Chapter 10: Hydrology, Flood Risk and Drainage Chapter 7: Climate Change	Operation	Implementation of suitable planting (such as a wildflower or grass mix)	Embedded	Landscape and Ecological Management Plan	Operator / Contractor
Chapter 10: Hydrology, Flood Risk and Drainage	Operation	The management train of any proposed sustainable drainage systems (SuDS) will be designed appropriately so as not to exacerbate surface water risk from the Site.	Embedded	Approval of detailed design (In accordance with the Drainage Strategy)	Operator / Contractor
Chapter 10: Hydrology, Flood Risk and Drainage	Operation	Where practical, runoff from equipment and access tracks will be directed to permeable SuDS features with contributions being made from permeable surfacing, wildflower planting and linear infiltration trenches	Embedded	In accordance with the Drainage Strategy	Operator / Contractor
Chapter 10: Hydrology, Flood Risk and Drainage	Operation	Where practicable, runoff from the energy storage area will be contained by local bunding and attenuated within gravel subgrade of lined permeable SuDS features prior to being passed forward to the local land drainage network.	Embedded	In accordance with the Drainage Strategy	Operator / Contractor



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Chapter 10: Hydrology, Flood Risk and Drainage	Operation	Local fire water provision will be provided within the battery storage sites.	Embedded	In accordance with the Drainage Strategy Battery Fire Safety Management Plan	Operator / Contractor
Chapter 10: Hydrology, Flood Risk and Drainage	Construction and Decommissioning	Where deemed necessary a temporary drainage network will be installed prior to the commencement of construction and decommissioning and a robust maintenance plan should be maintained throughout the duration of works on the Site.	Embedded	Construction Environmental Management Plan Decommissioning Statement	Contractor
Chapter 10: Hydrology, Flood Risk and Drainage	Operation	The drainage systems will be designed to good practice standards and the implementation of a robust maintenance plan will aid in reducing the risk of flooding as a result of blockages. A third-party management and maintenance team should be established to maintain the features throughout the lifetime of the Scheme.	Embedded	In accordance with the Drainage Strategy Operational Management Plan	Operator / Contractor
Chapter 10: Hydrology, Flood Risk and Drainage	Construction and Decommissioning	The following measures will be incorporated for silt management and control. <ul style="list-style-type: none"> <li>• Works that are likely to generate silt-laden runoff (e.g. earthworks and excavations) will be done preferentially during the drier months of the year;</li> <li>• During the construction / decommissioning phases, ideally buffers of 10 m (where possible) should be preserved adjacent to all receptors to ensure that there is a sufficient buffer from the sensitive receptors to the construction stages of development;</li> <li>• Site compounds and stockpiles will be located as far as possible (ideally at least 30m) away from receptors.</li> <li>• A drainage system will be developed to prevent silt-laden runoff from entering surface water drains, watercourses and ponds without treatment (e.g. earth bunds, silt fences, straw bales, or proprietary treatment) under any circumstances.</li> <li>• Earth stockpiles will be seeded as soon as possible, covered with geotextile mats or surrounding by a bund.</li> <li>• Mud will be controlled at entry and exits to the Sites using wheel washes and / or road sweepers.</li> <li>• Tools and plant will be washed out and cleaned in designated areas within Site compounds where runoff can be isolated for treatment before discharge to watercourse under appropriate consent.</li> <li>• Debris and other material will be prevented from entering receptors.</li> <li>• Construction / decommissioning SuDS (such as temporary attenuation) to be used during construction and decommissioning phases if necessary.</li> </ul>	Embedded	Construction Environmental Management Plan Decommissioning Statement	Operator / Contractor
Chapter 10: Hydrology, Flood Risk and Drainage	Construction and Decommissioning	Measures to control the storage, handling and disposal of chemicals, fuels/oils and other substances include: <ul style="list-style-type: none"> <li>• Fuel will be stored and used in accordance with the Control of Substances Hazardous to Health Regulations 2002, and the Control of Pollution (Oil Storage) (England) Regulations 2001;</li> <li>• Fuel and other potentially polluting chemicals are to be stored in a secure impermeable and bunded area;</li> </ul>	Embedded	Construction Environmental Management Plan Decommissioning Statement	Operator / Contractor





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		<ul style="list-style-type: none"> <li>Refuelling of plant to take place off the Site if possible, or only in a designated area at the Site compound ideally at least 20 m from receptors;</li> <li>Any plant / machinery / vehicles will be regularly inspected and maintained to ensure they are in good working order and clean for use in a sensitive environment. This maintenance is to take place off the Site if possible or only at designated areas in the Site compounds;</li> <li>All fixed plant used on the Site to be self-bunded;</li> <li>Mobile plant to be in good working order, kept clean and fitted with drip trays where appropriate;</li> <li>An Emergency Response Plan will be prepared and included in the CEMP. Spill kits and oil absorbent material to be carried by mobile plant and located at vulnerable locations on the Sites. Construction workers will receive spill response training;</li> <li>The Sites are to be kept secure to prevent vandalism that could lead to a pollution incident;</li> <li>Construction / decommissioning waste / debris are to be prevented from entering any water body;</li> <li>Surface water drains on roads, other watercourse crossings or the scheme compound areas will be identified and where there is a risk that silt laden runoff could enter them they will be protected (e.g. covers or sand bags); and</li> <li>Concrete wash water will be adequately contained and removed from the Site.</li> </ul>			
Chapter 11: Minerals	Decommissioning	Decommissioning and removal of plant and structures to restore the baseline condition for the identified mineral resources.  (Only infrastructure is left in the ground such as cable ducts after decommissioning where these do not present any significant constraint to future mineral extraction).	Embedded	Decommissioning Statement	Contractor
Chapter 11: Minerals	Construction	The Cable Corridor should be designed so that wherever possible cable routes follow existing infrastructure corridors or alternatively follow the edge of significant landscape features rather than directly crossing open fields avoiding the creation of further obstruction to the future exploitation of the mineral resource within identified Safeguarded Mineral Resources.	Embedded	Approval of detailed design	Applicant
Chapter 11: Minerals	All phases	The existing vehicular access between the mineral extraction allocation identified in the Northamptonshire Minerals and Waste Local Plan Policy 4 Site M2: Strixton - Bozeat and the A509 will be maintained..	Embedded	Approval of detailed design Construction Traffic Management Plan	Contractor / Operator
Chapter 11: Minerals	Construction	Adequate buffers and standoffs are incorporated into the Scheme's design to avoid any conflict between the development of the Scheme and the winning and working of mineral within the NM&WLP Policy 4 Site M2 allocation.	Embedded	Approval of detailed design	Applicant
Chapter 11: Minerals	Construction	Where the Cable Corridor crosses areas of permitted mineral extraction to the south of Earls Barton: (a) the route should be either restricted to areas already subject to mineral extraction or b) the timetable for the installation of the cable should be designed to facilitate prior extraction of any mineral reserve.	Embedded	Approval of detailed design Construction Environmental Management Plan	Applicant / Contractor
Chapter 11: Minerals	Construction	Where the Cable Corridor crosses areas of permitted mineral extraction to the south of Earls Barton cables shall be installed using techniques which do not interfere with the efficient extraction of remaining mineral reserves.	Embedded	Construction Environmental Management Plan	Contractor
Chapter 12: Cultural Heritage	Construction	Avoidance of archaeologically sensitive areas and the removal of panels and other infrastructure in areas considered to cause an indirect impact to the significance of heritage assets through their setting, where possible.	Embedded	Approval of detailed design	Applicant



PEIR Chapter and Commitment Reference	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Responsibility for Compliance and Monitoring
		In locations with heritage assets that could be impacted by the scheme through their settings, enhanced screening and offsets are proposed.			
Chapter 12: Cultural Heritage	Construction	Where appropriate the installation of concrete feet for the panels will serve to preserve archaeological remains <i>in situ</i> .  Where embedded mitigation is proposed in the form of concrete feet the type of solar panel (i.e. fixed or tracker) will be appropriately selected to ensure identified areas of archaeological sensitivity are adequately mitigated.	Embedded	Concept Design Parameters	Applicant
Chapter 12: Cultural Heritage	Construction	Proposed solar panels have been removed entirely from the Scheme as a result of archaeological or heritage sensitivities and include fields AF1, AF5, AF11, EF9, EF19, EF20, EF25, EF26, EF29, EF30, FF8, FF9, FF12, FF13, FF14, FF16, FF20, FF22, FF23, FF24 and FF27.  Solar panels have been partially removed from Fields EF13, FF11 and FF28 in response to identified archaeological and heritage sensitivity.	Embedded	Approval of detailed design	Applicant
Chapter 12: Cultural Heritage	Operation	Landscape mitigation proposals (e.g., planting of shelter belts and scattered trees, planting of new hedgerows, existing hedgerow reinforcement) which should reach maturity by Year 15.	Embedded	Landscape Environmental Management Plan	Applicant
Chapter 12: Cultural Heritage	Construction	The use of horizontal directional drilling (HDD) will be employed below areas known to contain important archaeological remains at a suitable depth to avoid impacts to buried archaeological remains.	Embedded	Construction Environmental Management Plan	Operator / Contractor
Chapter 12: Cultural Heritage	Construction	Construction traffic routes that avoid pinch points adjacent to or in proximity to heritage assets. Avoidance of potential busy routes where traffic vibration could impact on heritage assets.	Embedded	Construction Traffic Management Plan	Operator / Contractor
Chapter 12: Cultural Heritage	Construction	Offsets, panel free buffer zones and removal of panels from sensitive areas where required to mitigate impact to the significance of heritage assets due to change within their settings.	Embedded	Approval of detailed design	Applicant
Chapter 12: Cultural Heritage	Decommissioning	The following examples of best practice will inform the decommissioning statement: <ul style="list-style-type: none"> <li>The appropriate routing of vehicles (where possible avoiding areas known for their historic character);</li> <li>Adherence to an agreed approach on activities that generate noise (which can impact on the appreciation of heritage assets nearby); and</li> <li>The avoidance of any archaeological remains preserved below ground during construction.</li> </ul>	Embedded	Decommissioning Statement	Contractor / Operator
Chapter 12: Cultural Heritage	Construction	Targeted Strip, Map and Sample (SMS) excavation and 'preservation by record' and Archaeological Monitoring scalable to SMS excavation and 'preservation by record'	Additional	Archaeological Written Scheme of Investigation (DCO Requirement)	Applicant
Chapter 12: Cultural Heritage	Construction	Transport management plan with inclusion of banksman, toolbox talks and protective barriers as needed (to manage road safety around access points).	Additional	Construction Traffic Management Plan	Contractor
Chapter 13: Transport and Access	Operation	A programme of replacement equipment will be completed on the basis that this occurs on a site by site basis. Not all sites will be replaced at a single moment in time ensuring there are no combined traffic effects in this regard and the overall traffic effects are minimised.	Embedded	Construction Traffic Management Plan Operational Environmental Management Plan	Contractor
Chapter 13: Transport and Access	Construction, Operation, Decommissioning	Further details to be included in the CTMP: <ul style="list-style-type: none"> <li>Defined construction routes;</li> </ul>	Additional	Construction Traffic Management Plan	Contractor



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		<ul style="list-style-type: none"> <li>• Construction days and times that are limited;</li> <li>• Signage to assist enforcement of preferred routes;</li> <li>• Wheel washing and street cleaners to reduce debris;</li> <li>• Use of banksman as sensitive points of the routes; and</li> <li>• Pre-commencement road condition surveys.</li> </ul>			
Chapter 13: Transport and Access	Construction, Operation, Decommissioning	A Worker Travel Plan will be implemented. Principally aimed at promoting mini-bus usage and car sharing where possible to do so.	Additional	Construction Traffic Management Plan	Contractor
Chapter 14: Noise and Vibration	Construction and Decommissioning	<p>Best working practice would be implemented during each phase of the earthworks and construction works at the Sites.</p> <p>The following measures would be put in place to minimise noise emissions:</p> <ul style="list-style-type: none"> <li>• When works are taking place within close proximity to the sensitive receptors identified, the screening of noise sources via the erection of temporary screens would be employed;</li> <li>• All machinery would be regularly maintained to control noise emissions, with particular emphasis on lubrication of bearings and the integrity of silencers;</li> <li>• Site staff would be made aware that they are working adjacent to a sensitive area and avoid all unnecessary noise due to misuse of tools and equipment, unnecessary shouting and radios;</li> <li>• Where reasonably practicable, the avoidance of two noisy operations occurring simultaneously in close proximity to the same sensitive receptor;</li> <li>• Adherence to any time limits imposed on noisy works by the local authority;</li> <li>• Implement set working hours;</li> <li>• Ensure engines are turned off when possible; and</li> <li>• Should earthworks and construction activities need to be carried out during night-time hours, the local authority may include a planning condition that requests advance notice and details of any night working to be provided.</li> </ul>	Embedded	Construction Environmental Management Plan Decommissioning Statement	Contractor
Chapter 14: Noise and Vibration	Construction	In line with BS5228-2 alternative methods, removal of obstructions, provision of cut-off trenches, reduction of energy input per blow, reduction of resistance to penetration may be implemented.	Embedded	Construction Environmental Management Plan	Contractor
Chapter 14: Noise and Vibration	Operation	The OEMP will outline noise management of any maintenance works, as well as the upkeep of equipment and complaint procedure.	Embedded	Operation Environmental Management Plan	Contractor
Chapter 15: Glint and Glare	Operation	Screening in the form of vegetation.	Embedded	Landscape and Ecological Management Plan	Contractor / Operator
Chapter 15: Glint and Glare	Operation	Opaque fencing will be utilised where required during the period required for embedded mitigation vegetation planting to reach maturity.	Embedded	Approval of fencing and other means of closure	Contractor / Operator
Chapter 15: Glint and Glare	Operation	Backtracking panels will be utilised where applicable such that significant glint and glare is not predicted towards ground-based and aviation receptors.	Embedded	Operational Environmental Management Plan	Contractor / Operator
Chapter 16: Air Quality	Construction	Sensitive siting of temporary works.	Embedded	Construction Environmental Management Plan	Contractor / Operator



PEIR Chapter and Commitment Reference	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Responsibility for Compliance and Monitoring
Chapter 16: Air Quality	Operation	Sensitive routeing and siting of infrastructure.	Embedded	Approval of detailed design	Applicant
Chapter 16: Air Quality	Construction	<p>Air quality specific measures determined as part of this assessment that will be incorporated into the CEMP include:</p> <p>Communications</p> <ul style="list-style-type: none"> <li>Develop and implement a stakeholder communications plan that includes community engagement before work commences on site.</li> <li>Display the name and contact details of person(s) accountable for air quality and dust issues on the site boundaries. This may be the environment manager/engineer or the site manager.</li> <li>Display the head or regional office contact information.</li> </ul> <p>Dust Management</p> <ul style="list-style-type: none"> <li>Develop and implement a Dust Management Plan (DMP), which may include measures to control other emissions, approved by the Local Authority.</li> </ul> <p>Site Management</p> <ul style="list-style-type: none"> <li>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.</li> <li>Make the complaints log available to the local authority when asked.</li> <li>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.</li> <li>Hold regular liaison meetings with other high risk construction sites within 500 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.</li> </ul> <p>Monitoring</p> <ul style="list-style-type: none"> <li>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 checks of surfaces such as street furniture, cars and window sills within 100m of site boundary, with cleaning to be provided if necessary.</li> <li>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.</li> <li>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.</li> <li>Agree dust deposition, dust flux, or real-time PM10 continuous monitoring locations with the Local Authority.</li> </ul> <p>Preparing and maintaining the site</p> <ul style="list-style-type: none"> <li>Plan site layout so that machinery and dust causing activities are located away from receptors, as far as is possible.</li> <li>Erect solid screens or barriers around dusty activities or the site boundary so that are at least as high as any stockpiles on site.</li> </ul>	Embedded	Construction Environmental Management Plan	Contractor / Operator



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		<ul style="list-style-type: none"> <li>• Fully enclose site or specific operations where there is a high potential for dust production and the site is active for an extensive period.</li> <li>• Avoid site runoff of water or mud.</li> <li>• Keep site fencing, barriers and scaffolding clean using wet methods.</li> <li>• 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 on-site, cover as described below.</li> <li>• Cover, seed or fence stockpiles to prevent wind whipping.</li> </ul> <p>Operating vehicle/machinery and sustainable travel:</p> <ul style="list-style-type: none"> <li>• Ensure all vehicles switch off engines when stationary - no idling vehicles.</li> <li>• Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where practicable.</li> <li>• Impose and signpost a maximum-speed-limit of 15mph on surfaced and 10mph 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 appropriate).</li> <li>• Produce a Construction Logistics Plan to manage the sustainable delivery of goods and materials.</li> <li>• Implement a Travel Plan that supports and encourages sustainable travel (public transport, cycling, walking, and car-sharing).</li> </ul> <p>Operations</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Ensure an adequate water supply on the sites for effective dust/particulate matter suppression/mitigation, using non-potable water where possible and appropriate.</li> <li>• Use enclosed chutes and conveyors and covered skips.</li> <li>• Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate.</li> <li>• 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.</li> </ul> <p>Waste Management</p> <ul style="list-style-type: none"> <li>• Avoid bonfires and burning of waste materials.</li> </ul> <p>Earthworks</p> <ul style="list-style-type: none"> <li>• Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable.</li> <li>• Use hessian, mulches or trackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable.</li> <li>• Only remove the cover in small areas during work and not all at once.</li> </ul>			





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		<p>Construction</p> <ul style="list-style-type: none"> <li>Avoid scabbling (roughening of concrete surfaces) if possible.</li> <li>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.</li> <li>Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery.</li> <li>For smaller supplies of fine powder materials ensure bags are sealed after use and stored appropriately to prevent dust.</li> </ul> <p>Trackout</p> <ul style="list-style-type: none"> <li>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 continuously in use.</li> <li>Avoid dry sweeping of large areas.</li> <li>Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport.</li> <li>Inspect on-site haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable.</li> <li>Record all inspections of haul routes and any subsequent action in a site log book.</li> <li>Install hard surfaced haul routes, which are regularly damped down with fixed or mobile sprinkler systems, or mobile water bowsers and regularly cleaned.</li> <li>Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable).</li> <li>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.</li> </ul>			
Chapter 16: Air Quality	Operation	<p>Measures included in the Outline Battery Fire Safety Management Plan will include measures to limit human exposure to air pollution in the event of a fire such as:</p> <ul style="list-style-type: none"> <li>Notification of potentially affected residents including advice on the health effects of smoke and ways to reduce exposure (e.g. close windows and stay indoors); and</li> <li>Cancellation of outdoor events and potentially moving affected residents to a cleaner air location.</li> </ul>	Embedded	Battery Fire Safety Management Plan	Contractor / Operator
Chapter 17: Socio Economics	Construction	The Scheme design is embedded with mitigation measures to minimise the visual impact of the Scheme, and to minimise the extent to which the construction of the Scheme impacts on the use of Public Rights of Way and other recreational routes.	Embedded	Approval of detailed design	Applicant
Chapter 17: Socio Economics	Construction Operation	The embedded visual mitigation includes designing the preliminary layout of the Sites to provide suitable buffers from roads, public rights of way, and neighbouring buildings. These measures seek to reduce the impacts on the desirability of these receptors for tourism and recreational use.	Embedded	Construction Transport Management Plan Public Rights of Way Management Plan	Applicant / Contractor



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Chapter 17: Socio Economics	Construction and Operation	The Scheme is proposed to incorporate suitable buffers from Public Rights of Way and will design the preliminary layout of each Site to minimise effects on the enjoyment, desirability and use of Public Rights of Way.	Embedded	Construction Transport Management Plan Public Rights of Way Management Plan	Applicant / Contractor
Chapter 17: Socio Economics	Decommissioning	The potential for cable infrastructure to be left in situ or extracted through joint bays will help to mitigate socio-economic impacts on agricultural users of the land along the as-built Cable Corridor.	Embedded	Decommissioning Statement	Contractor
Chapter 17: Socio Economics	Construction and Operation	Enhancement to local education through promoting of apprenticeship and training schemes will have a positive impact on education and skills attainment in fields such as construction, engineering, and energy technology throughout the construction of the Scheme.	Additional	Framework Skills, Supply Chain and Employment Plan	Applicant
Chapter 17: Socio Economics	Construction and Operation	Focus on local recruitment and procurement	Additional	Framework Skills, Supply Chain and Employment Plan	Applicant
Chapter 18: Human Health	All phases	Mitigation measures are embedded within the Scheme as set out in the topic chapters to reduce effects (such as noise, air quality, landscape) and as such will mitigate effects on the local community and existing facilities from a human health perspective.	Embedded	Battery Fire Safety Management Plan Construction environmental management plan Operational environmental Management Plan Decommissioning Statement	Applicant / Contractor / Operator
Chapter 18: Human Health	Construction, operation	Designing the preliminary layout of the Sites to provide suitable buffers from roads, public rights of way, and neighbouring buildings.	Embedded	Approval of detailed design	Applicant
Chapter 18: Human Health	Construction	Provision of a Community Liaison Manager, to whom any comments, concerns or complaints can be raised, either directly by members of the public, or via elected representatives on parish or town councils, councillors, and Members of Parliament.	Embedded	Construction Environmental Management Plan	Contractor
Chapter 18: Human Health	Construction	Support will be provided for construction workers by way of outlining information regarding finding, and registering with, GPs	Additional	Construction Environmental Management Plan	Contractor
Chapter 18: Human Health	Construction	Measures will be implemented to minimise effects at Oakfield residential care home, these will include: <ul style="list-style-type: none"> <li>keeping in direct contact with the operators of the care home during construction,</li> <li>minimising working hours within 100m of the residential home,</li> <li>avoiding using any part of the Scheme within 100m of the residential home for storage of materials, and</li> <li>implementing landscape works within 50m of the residential home as early as possible in the construction programme.</li> </ul>	Additional	Construction Environmental Management Plan	Contractor
Chapter 19: Arboriculture	Construction	The layout of the Scheme has been informed by the following criteria: <ul style="list-style-type: none"> <li>All development on the Sites is sited outside of veteran tree buffer zones and buffer zones for ancient woodland;</li> </ul>	Embedded	Approved of detailed design	Applicant



PEIR Chapter and Commitment Reference	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Responsibility for Compliance and Monitoring
		<ul style="list-style-type: none"> <li>Existing habitat connectivity between ancient woodlands and other woodlands is preserved and enhanced wherever possible. Opportunities for creating new habitat connectivity between woodlands, such as new woodland planting between existing woodlands or establishment of linked hedgerows, are maximised wherever possible;</li> <li>Development within the Sites has avoided the root protection areas (RPAs) and canopy spreads of existing trees and woodlands wherever possible. Where RPA and canopy spread incursions are unavoidable, incursions target low quality Category U trees followed by Category C, B and A trees in that order in an effort to avoid effects to high quality trees; and</li> <li>Tree removal has been avoided wherever possible. Where tree removal is unavoidable, tree removal targets low quality Category U trees followed by Category C, B and A trees in that order in an effort to avoid the removal of high quality trees.</li> </ul>			
Chapter 19: Arboriculture	Construction	An Arboricultural Clerk of Works (ACoW) will provide supervision during construction within the Sites and Cable Corridor to ensure tree protection measures are being correctly implemented, such as Tree Protection Barriers, ground protection and stem protectors as appropriate, are used and correctly installed to safeguard retained trees during construction.	Embedded	Construction Environmental Management Plan	Applicant
Chapter 19: Arboriculture	Construction	Temporary construction compounds will be located outside of the RPAs and canopy spreads of retained trees.	Embedded	Construction Environmental Management Plan	Applicant / Contractor
Chapter 19: Arboriculture	Construction	Specialist working methods will be prescribed for works within the RPAs of retained trees. The ACoW will supervise these works to ensure root impacts are minimised.	Embedded	Construction Environmental Management Plan	Contractor
Chapter 19: Arboriculture	All phases	All tree pruning works will be undertaken by a professionally qualified and insured arborist working in accordance with British Standard 3998:2010 'Tree Work – Recommendations'.	Embedded	Construction Environmental Management Plan  Arboricultural Method Statement  Operational Environmental Management Plan  Decommissioning Statement	Contractor
Chapter 19: Arboriculture	Construction	Replacement tree planting will be used to compensate for trees removed for development.	Embedded	Construction Environmental Management Plan	Contractor
Chapter 19: Arboriculture	Operation	New tree planting will not occur within 30m of existing veteran and ancient trees to ensure these trees do not become shaded during the operational phase which could result in a decline in canopy health and possible premature death	Embedded	Approval of detailed design	Applicant
Chapter 19: Arboriculture	Operation	New tree and woodland planting will not occur close to proposed accesses, visibility splays, parking areas and internal roads to avoid and minimise the need for tree pruning during the operational phase, including when replacement of the solar panels occur.	Embedded	Approval of detailed design	Applicant
Chapter 19: Arboriculture	Operation	New tree and woodland planting will not be undertaken in areas where future tree growth may cause shading of solar panels which would result in tree pruning or removal being required during operation	Embedded	Approval of detailed design	Applicant



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Chapter 19: Arboriculture	Construction	<p>The following measures are likely to be included in the Outline Arboricultural Method Statement:</p> <ul style="list-style-type: none"> <li>• Tree Protection Barriers and ground protection where necessary during construction to safeguard retained trees;</li> <li>• Micrositing security fencing post holes to avoid tree roots and lining post holes within RPAs with an impermeable membrane prior to pouring any concrete;</li> <li>• Micrositing open cut trenching for cabling to avoid high and medium sensitivity/value arboricultural features;</li> <li>• Specialist construction methods are incorporated into the design (such as 'no-dig' or 'limited-dig' hard surfacing for internal roads) where incursions into the RPAs of retained trees occur. Horizontal Directional Drilling can also be used to avoid impacting tree roots when installing the cables; and</li> <li>• Hand digging under ACoW supervision where excavation is required within RPAs.</li> </ul>	Additional	Arboricultural Method Statement	Applicant / Contractor
Chapter 19: Arboriculture	Construction	Dust management measures for open cut trenching near ancient woodlands.	Embedded	Construction Environmental Management Plan	Contractor
Chapter 20: Agricultural Land Classification	Construction	A record of condition will be carried out (photographic and descriptive) of the working areas that may be affected by the construction activities. This record will be available for comparison following reinstatement after the works have been completed to ensure that the standard of reinstatement at least meets that recorded in the pre-condition survey.	Embedded	Construction Environmental Management Plan	Applicant / Contractor
Chapter 20: Agricultural Land Classification	Construction	Land used temporarily will be reinstated where practicable to its pre-construction condition and use (or a condition agreed with the landowner). Hedgerows, fences, and walls (including associated earthworks and boundary features) will be reinstated to a similar style and quality to those that were removed, with landowner agreement.	Embedded	Construction Environmental Management Plan	Applicant / Contractor
Chapter 20: Agricultural Land Classification	Construction	The Scheme will be constructed in compliance with the required Environmental Control Plans (ECPs). Those which are relevant to this chapter which are anticipated to be required include a Landscape and Ecological Management Plan (LEMP) and Soil Management Plan.	Embedded	Construction Environmental Management Plan Environmental Control Plans (ECPs) Landscape and Ecological Management Plan (LEMP) Soil Management Plan	Applicant / Contractor
Chapter 20: Agricultural Land Classification	Construction	Earthwork mounds and stockpiled soil will be protected (to minimise erosion and dust generation) by covering, seeding, or using water suppression where appropriate (to be determined by the soil types and the likely storage duration).	Embedded	Construction Environmental Management Plan	Applicant / Contractor
Chapter 20: Agricultural Land Classification	Construction	Where necessary, pads will be installed in areas where heavy equipment, such as cranes, are to be used. The stone pads will provide stable working areas and will reduce disturbance to the ground by spreading loads and reducing soil compaction.	Embedded	Construction Environmental Management Plan	Applicant / Contractor
Chapter 20: Agricultural Land Classification	Operation and Construction	<p>Soil management measures will include but not be limited to the following:</p> <ul style="list-style-type: none"> <li>• Details of the soil resources present;</li> <li>• How the topsoil and subsoil will be stripped and stockpiled;</li> </ul>	Embedded	Construction Environmental Management Plan Soil Management Plan	Applicant / Contractor



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		<ul style="list-style-type: none"> <li>Suitable conditions for when soil handling will be undertaken, for example avoiding handling of waterlogged soil;</li> <li>Indicative soil storage locations;</li> <li>How soil stockpiles will be designed taking into consideration site conditions and the nature/composition of the soil;</li> <li>Specific measures for managing sensitive soils;</li> <li>Suitable protective surfacing where soil stripping can be avoided, based on sensitivity of the environment and proposed works;</li> <li>Approach to reinstating soil, including measures to remove compaction, where required; and</li> <li>Details of measures required for soil restoration.</li> </ul>			
Chapter 20: Agricultural Land Classification	Construction	Where practicable and safe to do so, existing access to and from residential, commercial, community and agricultural land uses will be maintained throughout the construction phase or as agreed through landowner discussions. This may require signed diversions or temporary restrictions to access. The means of access to affected properties, facilities and land parcels will be communicated to affected parties at the start of construction of the Scheme and at the start of the relevant sections, with any changes communicated in advance of the change being implemented. Where field-to-field access points require alteration because of construction, alternative field access will be provided in consultation with the landowner/occupier.	Embedded	Construction Environmental Management Plan	Applicant / Contractor
Chapter 20: Agricultural Land Classification	Construction	Existing water supplies for livestock will be identified before construction commences. Where supplies will be lost or access compromised by construction works, temporary alternative supplies will be provided where necessary. Water supplies will be reinstated following construction.	Embedded	Construction Environmental Management Plan	Applicant / Contractor
Chapter 20: Agricultural Land Classification	Construction	Consultation with affected landowners will be carried out to investigate the current extent of land drainage. If necessary, pre-construction land drainage will be explored with the intent of maintaining the efficiency of the existing land drainage system and to assist in maintaining the integrity of the working areas during construction. The Scheme may include a system of 'cut-off' drains which feed into a new header drain and the Scheme will also consider surface water runoff measures.	Embedded	Construction Environmental Management Plan	Applicant / Contractor
Chapter 20: Agricultural Land Classification	Construction	Should animal bones be discovered during construction, which may indicate a potential burial site, works will cease, and advice will be sought from the Animal Health Regional Office on how to proceed, relevant to the origin and age of the materials found.	Embedded	Construction Environmental Management Plan	Applicant / Contractor
Chapter 20: Agricultural Land Classification	Construction	All movement of plant and vehicles between fields will cease in the event of a notification of a disease outbreak in the vicinity of the Scheme that requires the cessation of activities. Advice will be sought from the relevant authorities to develop suitable working methods required to reduce the biosecurity risk associated with the continuation of works.	Embedded	Construction Environmental Management Plan	Applicant / Contractor
Chapter 20: Agricultural Land Classification	Construction	Where deemed necessary, clay bungs or other vertical barriers will be constructed within trench excavations by a suitably experienced person, to prevent the creation of preferential drainage pathways.	Embedded	Construction Environmental Management Plan	Applicant / Contractor
Chapter 21: Electromagnetic Fields	Construction	Minimum setback distances between receptors and electrical cables during construction activities.	Embedded	Approval of detailed design	Applicant





PEIR Chapter and Commitment Reference	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Responsibility for Compliance and Monitoring
Chapter 21: Electromagnetic Fields	Operational	All proposed cables will be 'UKCA' and/or 'CE' marked.	Embedded	UK Electrical Legislation	Applicant / Contractor
Chapter 21: Electromagnetic Fields	Operational	Electrical fields from the underground power cables will be shielded by the surrounding cable duct and the conducting soil.	Embedded	Construction Environmental Management Plan	Applicant / Contractor
Chapter 21: Electromagnetic Fields	Operational	Minimum setback distances between receptors and electrical cables will be implemented if required.	Embedded	Approval of detailed design	Applicant
Chapter 21: Electromagnetic Fields	Construction, Operation	The Scheme will be designed so that the maximum levels of electromagnetic radiation received at existing residential properties, places of work, and PRowWs, from the proposed cable routes during operation will be below ICNIRP 1998 reference levels.	Additional	Approval of detailed design	Applicant
Chapter 22: Ground Conditions and Contamination	Construction and Decommissioning	<p>The following good practice and mitigation measures will be implemented to minimise land contamination:</p> <ul style="list-style-type: none"> <li>Site workers will be made aware of the possibility of encountering localised contamination through toolbox talks. Good standards of personal hygiene, welfare facilities on-site and the use of appropriate levels of personal protective equipment (PPE), will be enforced. All personnel will be educated about the potential environmental impacts of their activities, ensuring that all workers are fully aware of the risks and the necessary precautions to take to minimise pollution.</li> <li>Workers will adhere to health, safety and environmental precautions to reduce the potential for accidents and incidents.</li> <li>A 'Discovery Strategy' protocol shall be included to ensure that contamination identified during construction or decommissioning is assessed by a specialist in land contamination. This will include but not be limited to stopping works in the area and ensuring the identified contamination does not pose a risk until an environmental specialist undertakes an assessment and a method is agreed to deal with the identified contamination. If required, the Local Planning Authority will be notified.</li> <li>To mitigate the risk of airborne contamination, a dust suppression and management system will be implemented. This system will control dust emissions during construction and decommissioning activities, preventing them from migrating off-site and impacting neighbouring environments. Methods include washing down of vehicle's wheels and dampening down materials.</li> <li>Topsoil displaced within the construction and decommissioning of the cable route, should be appropriately stored and reused. Temporary stockpiles and/or excavated topsoil from the cable route is to be stored away from any Flood-Zone 3 areas.</li> <li>Horizontal directional drilling (HDD) is to be employed for the construction and placement of the cable route beneath the River Nene. This technique is preferred as it minimises disruption to the watercourse by avoiding open trenching, thereby reducing sediment displacement. To prevent sediment from entering the watercourse, barriers will be installed around the work area, and a vegetative buffer zone will be integrated to naturally filter potential runoff. If necessary, a sediment basin or trap will also be utilised.</li> <li>Bulk fuels or chemicals used on-site during the construction and decommissioning phases should be stored appropriately, within an impervious bund of 110% of the volume of the container to reduce the potential for impact to the environment in the event of a container</li> </ul>	Embedded	Construction Environmental Management Plan Decommissioning Statement	Operator / Contractor



PEIR Chapter and Commitment Reference	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Responsibility for Compliance and Monitoring
		<p>failure/leak of battery chemicals during a fire and/or associated fire suppressant foam and waters. Any spillages will be promptly addressed by appropriate measures, such as spill kits, and an Emergency Spillage Plan will be developed. The contractor will ensure immediate notification of the Environment Agency in the event of any suspected pollution incidents, facilitating response measures.</p> <ul style="list-style-type: none"> <li>• A spill response plan will be implemented during the HDD process to manage drilling fluids and fuels, with closed-loop drilling systems in place to minimise the risk of fluid escape. As stated above, all fuels on site will be securely stored within a contained, bunded system to prevent potential leakages.</li> <li>• All equipment and vehicles will be regularly maintained and inspected to prevent leaks, with refuelling activities occurring on impermeable surfaces. Biodegradable hydraulic oils will be prioritised for use in any identified sensitive areas.</li> <li>• To prevent pollution from accidental leaks or spills of construction materials, the contractor will implement robust pollution prevention plans adhering to established guidelines, such as the Guidance for Pollution Prevention (GPP). Drainage systems, including Sustainable Drainage Systems (SuDS), will be developed in line with hydrology requirements.</li> </ul>			
Chapter 22: Ground Conditions and Contamination	Operation	<p>The following good practice and mitigation measures will be implemented to minimise land contamination:</p> <ul style="list-style-type: none"> <li>• Site workers will be made aware of the possibility of encountering localised contamination through toolbox talks. Good standards of personal hygiene, welfare facilities on-site and the use of appropriate levels of personal protective equipment (PPE), will be enforced. All personnel will be educated about the potential environmental impacts of their activities, ensuring that all workers are fully aware of the risks and the necessary precautions to take to minimise pollution.</li> <li>• Workers will adhere to health, safety and environmental precautions to reduce the potential for accidents and incidents.</li> <li>• Mitigation measures to manage potential risks associated with BESS fires, particularly focused on the containment of hazardous substances. Battery storage units will be housed in fully contained systems, ensuring that release of chemicals or contaminated fire water is captured and prevented from leaching into the environment. Fire suppression systems will prioritise the use of environmentally safer foams or fire waters, with containment measures in place to manage runoff. In the event of a fire, hazardous materials from damaged battery systems will be managed through containment and cleanup protocols. An emergency response plan will be implemented, detailing fire control procedures and environmental protection measures. Post-incident environmental monitoring will be conducted to ensure soil and water quality is not compromised.</li> <li>• The underground cables will employ high-quality, durable sheathing and insulation materials to protect the cables from physical damage, moisture, and corrosion, ensuring they can withstand harsh underground conditions. In areas of particular environmental significance or sensitivity, such as beneath the River Nene, bunded containment systems can be utilised as an additional protective measure to capture and contain any potential leaks, preventing hazardous substances from seeping into the soil or groundwater. Furthermore, leak detection systems can be installed to monitor the condition of the underground cables, allowing for real-time detection of any potential leaks. This proactive approach enables rapid responses to mitigate environmental impacts. In the event of a leak, a comprehensive spill response plan will be in place to quickly contain and remediate any contamination, including procedures for</li> </ul>	Embedded	Operation Environment Management Plan	Operator / Contractor



PEIR Chapter and Commitment Reference	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Responsibility for Compliance and Monitoring
		<p>isolating the affected area and safely cleaning up any leaked materials. The implementation and further detail of these measures will be confirmed within the final ES</p> <ul style="list-style-type: none"> <li>Bulk fuels or chemical to be used on-site during the operational phase should be stored appropriately, within an impervious bund of 110% of the volume of the container to reduce the potential for any contamination source in the event of a container failure/ leak of battery fire and associate fire waters. Any spillages will be promptly addressed by appropriate measures, such as spill kits, and an Emergency Spillage Plan will be developed. The contractor will ensure immediate notification of the Environment Agency in the event of any suspected pollution incidents, facilitating response measures.</li> <li>Regular inspections and maintenance of battery storage systems and solar panels will be routinely undertaken to identify any signs of potential leakage, wear, or faults. This ensures early detection and rectification of issues, thereby minimising operational risks. Additionally, solar panels will undergo periodic cleaning using de-ionised water (no chemicals will be used).</li> <li>Real-time monitoring systems will be installed to continuously track the performance of the solar panels and battery systems. These systems enable the early identification of any performance issues or faults, helping to prevent more significant problems such as fires or equipment malfunctions, and ensuring efficient, safe operations throughout the facility's lifecycle.</li> </ul>			
Chapter 22: Ground Conditions and Contamination	All phases	<p>Any radon protection measures installed will need to be in accordance with BRE Report BR211 (2023) Radon: Protective measures for new buildings and as required by Building Regulations.</p> <p>Only a limited portion of the site is impacted by elevated radon levels where 10-30% of properties are above the action level.</p> <p>Should radon protection measures be deemed necessary, their implementation will effectively mitigate the potential risks associated with elevated radon concentrations.</p>	Additional	Construction Environmental Management Plan	Applicant / Contractor
Chapter 22: Ground Conditions and Contamination	All phases	<p>The mitigation strategies outlined in the Detailed UXO Risk Assessment include:</p> <ul style="list-style-type: none"> <li>The establishment of a UXO Risk Management Plan,</li> <li>Conducting site-specific UXO awareness briefings for all personnel involved in intrusive works, and</li> <li>Ensuring the presence of a UXO specialist on-site during any open excavations, including trial pits, service pits, and foundations.</li> </ul>	Additional	<p>Detailed UXO Risk Assessment</p> <p>Construction Environmental Management Plan</p> <p>Construction Environmental Management Plan</p> <p>Decommissioning Statement</p>	Applicant / Contractor / Operator
Chapter 22: Ground Conditions and Contamination	All phases	<p>Floor loads should be transferred to ground improved soils or to piles through concrete ground beams/concrete frame or otherwise suspended.</p>	Additional	<p>Construction Environmental Management Plan</p> <p>Construction Environmental Management Plan</p> <p>Decommissioning Statement</p>	Contractor / Operator
Chapter 22: Other environmental matters (Lighting)	All phases	<p>Lighting control measures include the consideration of the direction, duration, and orientation of lighting, ensuring inward distribution of light and avoiding light spill onto existing boundary features and that impacts are reduced on sensitive receptors.</p> <p>Standard good practice measures would be employed to minimise light spill.</p>	Embedded	<p>Construction Environmental Management Plan</p> <p>Construction Environmental Management Plan</p>	Applicant / Contractor / Operator



PEIR Chapter and Commitment Reference	Phase of Development	Commitment (Mitigation Measure)	Embedded and/or Additional Mitigation	Commitment Securing Mechanism	Responsibility for Compliance and Monitoring
				Decommissioning Statement	
Chapter 22: Other Environmental Matters (Waste)	All phases	The Scheme will seek to minimise and design out waste streams where possible. Opportunities to re-use material resources will be sought where practicable. Where re-use and prevention are not possible, waste arisings will be managed in line with the waste hierarchy.	Embedded	Construction Environmental Management Plan Construction Environmental Management Plan Decommissioning Statement	Applicant / Contractor / Operator
Chapter 22: Other Environmental Matters (Waste)	All phases	A Site Waste Management Plan (SWMP) will describe how materials will be managed and stored efficiently and disposed of legally during the construction phase. It will also outline the aims, objectives and on-going management responsibilities, including management and storage practices, to be implemented during the construction phase, and will set targets for the reduction, diversion from landfill and reuse of waste.	Embedded	Construction Environmental Management Plan Construction Environmental Management Plan Decommissioning Statement	Applicant / Contractor / Operator
Chapter 22: Other Environmental Matters (Telecommunications)	Construction	The offsets required to be maintained to identified services as directed by service providers has been informed the design.	Embedded	Approval of detailed design	Applicant
Chapter 22: Other Environmental Matters (Telecommunications)	Construction	Where the proposed Cable Routes cross telecommunication and utilities, the cables will be laid so that the utilities are crossed at 90° where possible and will be suitably offset where running parallel.	Embedded	Approval of detailed design	Applicant
Chapter 23: Major Accidents and Disasters	Operation	An outline Battery Fire Safety Management Plan will be submitted as part of the DCO application and sets out the measures proposed to mitigate and manage all foreseeable hazards associated, within the relevant regulatory frameworks.	Embedded	Battery Fire Safety Management Plan	Operator / Contractor
Chapter 23: Major Accidents and Disasters	All phases	Mitigation measures are embedded within the Scheme as set out in the topic chapters to reduce effects (such as, hydrology, Transport and access, glint and glare and ground conditions) and as such will mitigate effects.	Embedded	Construction Environmental Management Plan Operational Environmental Management Plan Decommissioning Statement	Applicant / Contractor / Operator