
EAST YORKSHIRE SOLAR FARM

East Yorkshire Solar Farm
EN010143

Environmental Statement

Environmental Mitigation and Commitments Register
Document Reference: EN010143/APP/6.5

Regulation 5(2)(q)
Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009

November 2023
Revision Number: 00

2009

BOOM-POWER.CO.UK

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Prepared for:

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1. Mitigation Schedule

1.1 Introduction

- 1.1.1 Table 1 lists the environmental mitigation measures to be adopted during the construction, operation and maintenance, and decommissioning phases of the Scheme, and identifies where that mitigation is secured in Schedule 2 Requirements of the **Draft Development Consent Order (DCO)** [EN010143/APP/3.1].

Table 1. East Yorkshire Solar Farm Environmental Mitigation and Commitments Register

ID	Primary Topic (primary driver for mitigation)	Secondary Topic (secondary drivers for mitigation)	ES Document Source	Effect	Mitigation Measures (including any monitoring required)	Embedded or Additional Mitigation?	Phase (Construction, Operation or Decommissioning)	Responsibility (e.g. Applicant, Contractor)	Securing Mechanism
CC-01	Climate Change	-	Chapter 6: Climate Change [EN010143/APP/6.1]	Greenhouse Gas (GHG) emissions from construction traffic (including vehicles on site and transportation of materials) and end embodied emissions of materials and products.	Standards of good practice will be followed to minimise greenhouse gas emissions from activities and vehicles, such as not idling or revving, abiding by speed limits, sensible acceleration and deceleration, and maintaining in accordance with manufacturer recommendations	Embedded	Construction Operation Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 12. OEMP Requirement 18. Decommissioning and Restoration
CC-02	Climate Change	Water Environment	Chapter 6: Climate Change [EN010143/APP/6.1]	Increased flood risk on-site due to climate change needing to be considered in the design.	Storing topsoil and other construction and decommissioning materials outside of the 1 in 100-year floodplain extent (Flood Zone 3), as far as reasonably practicable (noting that no development will occur within Flood Zone 3 Areas of the Solar PV Site).	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
CC-03	Climate Change	Human Health	Chapter 6: Climate Change [EN010143/APP/6.1]	Impact on workers – for example flooding and heatwaves	SHE Manager to monitor weather forecasts and Environment Agency flood alerts to allow works to be planned and carried out accordingly to manage extreme weather conditions, such as storms and flooding. Health and safety plans will be required to account for potential climate change impacts on workers, such as flooding and heatwaves. To include measures such as toolbox talks on training on dangers of extreme weather conditions.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
CC-04	Climate Change	-	Chapter 6: Climate Change [EN010143/APP/6.1]	Greenhouse gas emissions from the operational maintenance activities required during operation of Scheme.	Standards of good practice to minimise greenhouse gas emissions from operation such as use of motion detection security lighting and thermal /IR CCTV system to avoid permanent lighting and reduce energy demand of the Scheme, regular maintenance of the Scheme, switching off equipment when not in use and avoiding idling, and establish, monitor, and manage landscape and ecology mitigation and enhancement (BNG) measures embedded in the design, secured through the Framework Landscape and Ecological Management Plan (LEMP) [EN010143/APP/7.14] .	Embedded	Operation	Applicant Contractor	Requirement 12. OEMP Requirement 6. LEMP
CH-01	Cultural Heritage	-	Chapter 7: Cultural Heritage	Potential for impact upon archaeological deposits	Avoidance of the moated site east of Gribthorpe (MHU3206), a non-designated heritage asset. The asset is located in Ecology Mitigation Area 1g and will not therefore be physically	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design Approval

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			[EN010143/APP/6.1]		impacted by the Scheme. An exclusion zone will be set up around the feature.				Requirement 11. CEMP
CH-02	Cultural Heritage	Transport and Access	Chapter 7: Cultural Heritage [EN010143/APP/6.1]	Temporary impacts on the setting of heritage assets during construction associated with increased visual and noise intrusion.	The planning of construction and decommissioning traffic routes and modes of transport has sought to reduce impacts to numerous receptors, including heritage assets. For example, stopping large construction traffic from impacting the village of Howden, which contains numerous heritage assets. These are further detailed in the CTMP and DTMP.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 15. CTMP Requirement 18. Decommissioning and Restoration
CH-03	Cultural Heritage	Transport and Access	Chapter 7: Cultural Heritage [EN010143/APP/6.1]	Temporary impacts on the setting of heritage assets during construction associated with increased visual and noise intrusion.	Through the detailed CTMP, the routing of construction traffic through Howden, Wressle, Brighton, Gunby, Bubwith, Spaldington, Willtoft and Gribthorpe, will be prohibited. The overwhelming majority of designated heritage assets surrounding the Solar PV Site are located within these settlements.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP Requirement 15. CTMP
CH-04	Cultural Heritage	Transport and Access	Chapter 7: Cultural Heritage [EN010143/APP/6.1]	Temporary impacts on the setting of heritage assets during construction associated with increased visual and noise intrusion.	Two of the five temporary Construction Compounds (A and B) have been sited within Solar PV Areas, to avoid wider physical impacts than those required for the installation of solar PV infrastructure, where practicable.	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design Approval Requirement 11. CEMP
CH-05	Cultural Heritage	-	Chapter 7: Cultural Heritage [EN010143/APP/6.1]	Temporary impacts on the setting of heritage assets during construction associated with increased visual and noise intrusion.	The Order limits have been designed to avoid or minimise potential changes to the setting of designated heritage assets, including Grade I, Grade II* and Grade II listed buildings.	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design Approval Requirement 11. CEMP
CH-06	Cultural Heritage	Landscape and Visual	Chapter 7: Cultural Heritage [EN010143/APP/6.1]	Temporary impacts on the setting of heritage assets during construction associated with increased visual and noise intrusion.	The external finish of infrastructure within Field Stations will be typically in keeping with the prevailing surrounding environment, to minimise the visual impact. External finish varies between manufacturers and colour would be confirmed during detailed design but is most often a grey or green painted finish.	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design Approval Requirement 11. CEMP
CH-07	Cultural Heritage	Transport and Access	Chapter 7: Cultural Heritage	Temporary impacts on the setting of heritage assets during	One of the two principal routes decommissioning traffic will use is the A63, to and from the direction of Selby to the main temporary construction compound located to the east of Hagthorpe and to the west side of the River Derwent. This	Embedded	Decommissioning	Applicant Contractor	Requirement 18. Decommissioning and Restoration

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			[EN010143/APP/6.1]	decommissioning associated with increased visual and noise intrusion.	route is already a principal road into the area and stopping larger construction traffic here will avoid creating potential impacts to heritage assets further to the east, around, and within, Howden. The town of Howden itself, which contains a number of heritage assets will be off-limits to decommissioning traffic.				
CH-08	Cultural Heritage	Transport and Access	Chapter 7: Cultural Heritage [EN010143/APP/6.1]	Temporary impacts on the setting of heritage assets during decommissioning associated with increased visual and noise intrusion.	The other principal route for decommissioning traffic will be the A163 to and from the direction of Holme-on-Spalding-Moor to a temporary construction compound located to the north of Willitoft in Area 1a of the Solar PV Site.	Embedded	Decommissioning	Applicant Contractor	Requirement 18. Decommissioning and Restoration
CH-09	Cultural Heritage	Transport and Access	Chapter 7: Cultural Heritage [EN010143/APP/6.1]	Temporary impacts on the setting of heritage assets during decommissioning associated with increased visual and noise intrusion.	Onward transport from the decommissioning compounds to the Solar PV Site areas will be undertaken by decanted loads conveyed via tractor and trailer. This type of transport will allow numerous intra-site journeys to be undertaken within the boundaries of the Solar PV Site areas, reducing road journeys, and, where unavoidably using roads, will more closely reflect existing agricultural vehicle usages. Intra-site journeys will avoid the town of Howden, and the villages of Wressle, Brighton, Gunby, Bubwith, Spaldington, Willitoft and the hamlet of Gribthorpe, by utilising Wood Lane and Street Lane, or travelling across the Solar PV Site areas directly.	Embedded	Decommissioning	Applicant Contractor	Requirement 18. Decommissioning and Restoration
CH-10	Cultural Heritage	-	Chapter 7: Cultural Heritage [EN010143/APP/6.1]	Potential direct impacts on buried archaeological remains	<p>Potential direct impacts on buried archaeological remains will be managed through a programme of additional mitigation which includes preservation in situ, archaeological investigation and recording, archaeological monitoring and a protocol for dealing with unexpected archaeological discoveries during construction. The guiding principles and methodology for the planning and implementation of the archaeological mitigation will be set out in an Overarching Written Scheme of Investigation for Archaeological Mitigation, which will be agreed with the archaeology officers for East Riding of Yorkshire Council and North Yorkshire Council.</p> <p>The Overarching Written Scheme of Investigation will include a requirement for site-specific Written Schemes of Investigation to be produced by the Applicant's Archaeological Contractor to achieve the mitigation measures. The Site-specific Written Schemes of Investigation will be agreed with</p>	Additional	Construction	Applicant Contractor	Requirement 11. CEMP

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					<p>the relevant local authority archaeology officer prior to the commencement of the archaeological works.</p> <p>Archaeological mitigation works will focus primarily on the areas of Iron Age / Romano-British settlement archaeology (AEC006, AEC007, AEC008, AEC009, AEC010, AEC011) identified and characterised during the geophysical survey and archaeological trial trenching undertaken for the Scheme. Once the Overarching WSI is agreed, this document will establish the objectives for the historic environment works and set out the mechanisms for the appointed archaeological contractor to design the investigation, undertake evaluation, analysis, reporting and deposit the archive prior to construction. Works will be monitored against the overarching WSI.</p> <p>The proposed demolition of two non-designated farm buildings at Johnson's Farm (AEC005) will be mitigated by a detailed historic building recording, to be outlined within the Overarching Written Scheme of Investigation for Archaeological Mitigation and subsequently subject to a site-specific Written Schemes of Investigation.</p>				
EC-01	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	There is potential to introduce/spread invasive non-native species (INNS) within and beyond the Order limits during construction of the Scheme through vehicles/machinery and people.	Pre-construction and pre-decommissioning surveys will be undertaken where required to provide an update on the presence and location of any INNS that could be impacted by the Scheme, the findings of which will inform the implementation of measures to prevent their spread.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
EC-02	Ecology	Arboriculture Soils and Agriculture MA&D	Chapter 8: Ecology [EN010143/APP/6.1]	There is potential to introduce/spread invasive non-native species (INNS) within and beyond the Order limits during construction of the Scheme through vehicles/machinery and people.	A Biosecurity Plan will be produced prior to construction and decommissioning which will set out procedures to ensure that no invasive species are brought onto the Site, exported out of the Site or spread within it (e.g. Wildlife and Countryside Act 1981 (as amended) Schedule 9 species). In the event that any future infestations of INNS are identified prior to and or during the development process, exclusion zones will be established around them, and a suitably qualified ecologist contacted for advice as required. Site / species specific method statements (or similar will be prepared as required).	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration

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EC-03	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	There is potential to introduce/spread invasive non-native species (INNS) within and beyond the Order limits during construction of the Scheme through vehicles/machinery and people.	Ongoing monitoring of habitats and species will be undertaken throughout construction and decommissioning, overseen by an appointed ECoW of suitable qualifications and experience, or in charge of a team of appropriately qualified ecologists. The ECoW will have the appropriate authority to review RAMS, oversee works and recommend action as appropriate, including temporarily stopping works where non-compliant working is observed, for example to safeguard protected species and their habitats, or where any other breaches of environmental legislation are likely to occur.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
EC-04	Ecology	Landscape and Visual Water Environment	Chapter 8: Ecology [EN010143/APP/6.1]	Potential for obtrusive glare and light spill to impact on ecology.	Controls on lighting/illumination to minimise visual intrusion and potential adverse effects on sensitive ecological features (e.g. water bodies, watercourses, woodlands, hedgerows and individual trees) will be implemented as far as reasonably practicable. The SHE Manager / ECoW will undertake site checks as required, including of lighting.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
EC-05	Ecology	Water Environment Air Quality	Chapter 8: Ecology [EN010143/APP/6.1]	Potential for spillages to enter watercourses and impact ecology and dust deposition on sensitive ecological features.	The design of the Scheme will comply with industry good practice and environmental protection legislation during both construction and operation and maintenance e.g. prevention of surface and ground water pollution, fugitive dust management, noise prevention or amelioration. The SHE Manager / ECoW will undertake site checks as required.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 5. Detailed Design Approval Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
EC-06	Ecology	Water Environment Air Quality	Chapter 8: Ecology [EN010143/APP/6.1]	Potential for spillages to enter watercourses and impact ecology and dust deposition on sensitive ecological features.	Prior to construction and decommissioning, the Contractor will develop an Emergency Response Plan.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
EC-07	Ecology	Water Environment Air Quality	Chapter 8: Ecology [EN010143/APP/6.1]	Potential for spillages to enter watercourses and impact ecology and dust deposition on sensitive ecological features.	With the exception of the open trench crossing and HDD of watercourses for cable installation, where required, no works will be undertaken within at least 10 m of watercourses and ponds (30 m of the River Ouse, River Derwent and Watercourse DE53), which is considered sufficient to mitigate for potential hazards such as chemical and soils spills to avoid potential direct impacts to watercourses and any protected/notable species that use them. The detailed CEMP and DEMP will also specify requirements for the safe storage	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 5. Detailed Design Approval Requirement 11. CEMP Requirement 18. Decommissioning and Restoration

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					of chemicals/other hazardous materials (e.g. fuel) reaching watercourses during flood events during construction.				
EC-08	Ecology	Water Environment	Chapter 8: Ecology [EN010143/APP/6.1]	Disturbance to species during HDD operations.	The Grid Connection Corridor crossings of the River Derwent Special Area of Conservation (SAC)/ Site of Special Scientific Interest (SSSI), River Ouse, DE53 and the Interconnecting Cable crossing of Featherbed Drain will be undertaken using HDD methods to lay cabling, therefore avoiding impacts to the in-channel and associated riparian habitats. All cables will be a minimum of 1.5 m below the bed of watercourses and a minimum of 5 m in the case of the River Ouse and River Derwent	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design Approval Requirement 11. CEMP
EC-09	Ecology	Noise and Vibration	Chapter 8: Ecology [EN010143/APP/6.1]	Disturbance to species during HDD operations.	A hierarchy of mitigation measures for HDD activities will ensure that where required, HDD activity noise effects (disturbance to species and habitats) will be reduced as far as reasonably practicable. This hierarchy includes (but is not limited to) the potential for the use of lower noise and vibration techniques and temporary acoustic fencing.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
EC-10	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	Removal of vegetation present within the Site.	Vegetation clearance will be undertaken in advance of construction and decommissioning and at an appropriate time of year to avoid the nesting bird period and minimise incidental injuring or killing of reptiles and amphibians. Therefore, construction will avoid the nesting bird period (i.e. March to August inclusive) for vegetation clearance and, in areas suitable for reptiles, would be undertaken at an appropriate time of year, concordant with requirements for other species (such as nesting birds and brown hare).	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
EC-11	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	Removal of vegetation present within the Site.	Where vegetation clearance within the nesting bird period is unavoidable, vegetation will be checked for the presence of any nests by a suitably experienced ornithologist, prior to removal. If active nests are found, appropriate buffer zones will be put in place and the area monitored until the young birds have fledged.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
EC-12	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	Removal of vegetation present within the Site.	Vegetation with the potential to support reptiles will be cut in a phased approach, firstly cutting to 30cm (centimetres), then, following a period of no less than 24 hours, to 15cm and then to ground level, after another 24 hours. Any habitat features which may conceal hibernating reptiles (e.g., log piles, rubble mound bunds, any other debris) will not be dismantled during winter months (i.e., between November and February) and will be conducted during the reptile active season (i.e., March (dependent on weather) to October) during warm weather	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration

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					conditions (i.e., above 5°C) to avoid killing or injuring potential hibernating reptiles.				
EC-13	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	Removal of vegetation present within the Site.	Checks for nesting birds listed under Schedule 1 of the WCA 1981 (as amended) especially barn owl (<i>Tyto alba</i>) and hobby (<i>Falco Subbuteo</i>) will be undertaken prior to construction and decommissioning (including the appropriate season prior to for monitoring purposes, and immediately prior to for vegetation clearance) and will be carried out where the Scheme intersects or passes close to suitable breeding habitats or known breeding locations for these species. If nesting Schedule 1 birds are found, a suitably qualified ornithologist will be consulted to advise whether a temporary no disturbance buffer around the nest is required to avoid disturbance to Schedule 1 breeding species, the size of which will be determined by the species, stage of nesting and construction activity proposed.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
EC-14	Ecology	Water Environment	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	Where watercourses/ditches (not Main Rivers) are crossed by cabling works and open cut techniques are required, habitats that are temporarily lost will be reinstated after installation. Where small watercourses/ditches (not Main Rivers) are crossed for access, either temporarily during construction or permanently during operation, new crossings will be clear span and wide enough to avoid the loss of in-channel and riparian habitats. Tracks will be permeable, and localised SuDS, such as swales and infiltration trenches, will be used to control runoff if required. Habitats will be reinstated upon completion of the works, and allowed to re-vegetate naturally. For these crossings water flow would be maintained by damming and over-pumping, except where works are undertaken in the drier months and this is not necessary.	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design Approval Requirement 11. CEMP
EC-15	Ecology	Water Environment	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	No new culverts will be created as part of the Scheme. Where upgrades are required to existing culverts, they will be extended by a maximum of 2 m and length-for-length equivalent watercourse enhancements will be required as set out in the Water Framework Directive Enhancement and Mitigation Plan to be prepared post-consent and prior to commencement of works. Where practicable, culverts extensions and any improved structure will be set 150mm (millimetres) below bed level to allow sedimentation and a naturalised bed to form, which will maintain longitudinal connectivity for aquatic fauna.	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design Approval Requirement 11. CEMP

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EC-16	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	Where the Grid Connection Corridor crosses the A63 and through the edge of the River Derwent SAC/SSSI, the Applicant has committed to prioritising options of cable installation using HDD which would avoid passing through the River Derwent SAC/SSSI (routing north of the SAC/SSSI and an HDD across the A63) unless unforeseen and engineering constraints/ground conditions are identified at detailed design stage making this option unachievable. The second option would involve open cut of the access track off the A63 and then HDD under the rest of the access track at the start of the SAC boundary and into the field to the north outside of the SAC boundary. The third preferred option would utilise careful excavation along the track and potentially a small loss of verge habitat north of the existing track when entering the field (beyond that required for site access) within the SAC/SSSI boundary. No works will be undertaken south of the existing access track within the SAC/SSSI.	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design Approval Requirement 11. CEMP
EC-17	Ecology	Human Health Transport and Access	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction or decommissioning – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	Vehicular access during construction and decommissioning along the existing track through the very edge of the River Derwent SAC would be managed. Along with ensuring the health and safety of road users this would also ensure that there would be no requirement for road widening / highway improvements at the junction with the A63 or for vehicles to progress along the track. The traffic management would also ensure that trespass of vehicles onto the verge was avoided. The access would require the construction of a temporary bell mouth in the verge habitat to the north of the existing access track when entering the field, which would be fully reinstated at the end of construction. It has been established that whilst the track and the verge habitat constitute site fabric, they are not functionally linked to qualifying habitat and species in the River Derwent SAC or of special interest/features for the SSSI.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 5. Detailed Design Approval Requirement 11. CEMP Requirement 18. Decommissioning and Restoration Requirement 13. CTMP
EC-18	Ecology	Landscape and Visual	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction or decommissioning – resulting in temporary or permanent reduction in habitat extent and potential	Tottering Lane, Gribthorpe Local Wildlife Site (LWS) lies within the Interconnecting Cable Corridor between Solar PV Area 1a and Solar PV Areas 1b and 1e. Wressle Verge LWS is located in both the Interconnecting Cable and Grid Connection Corridors and runs north to south between Solar PV Areas 3a and 3b (along Wood Lane) and east to west along the northern boundary of Solar PV Area 3b (along Brind Lane). To limit disturbance to habitat inside these LWSs during construction, the working area for the cable installation across	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 6. LEMP Requirement 11. CEMP Requirement 18. Decommissioning and Restoration

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				direct and indirect effects on associated species.	the verges will be kept to a minimum of 5 m width inside the LWS's and no spoil/materials/vehicles will be stored within the LWS. Once the cable/s have been installed, the removed turfs and soil from the LWS (stored separately to that of adjacent fields) will be backfilled and replaced promptly, retaining the original topsoil and seed bank. The adjacent hedgerows will be tunnelled underneath using an auger to retain the hedgerows and avoid additional effects on the verges; this will not be long enough to tunnel under the hedge and verge. Appropriate measures (e.g. fencing and signage) will ensure no encroachment into the LWS's, outside of the required working areas. During decommissioning, where topsoil was translocated from the verges within the footprint of the bellmouths to the inside of the bellmouths, this will be replaced back along the verge where the bellmouth is removed. Hedgerows will also be planted where previously lost. Land occupied by accesses into the site (bellmouths) (either new accesses or modified/extended existing accesses) will be reinstated to its pre-development land use during decommissioning. There would be no direct impacts on the LWS due to 'open and pull' cable removal. Maintenance of the visibility splays will return to preconstruction maintenance regimes in line with the LWSs management.				
EC-19	Ecology	Transport and Access	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	As well as being crossed by cabling, vegetation clearance will be required for provision of the new and modified existing site accesses points in the LWSs. Two new accesses into the fields along Tottering Lane will be required, as well as upgrading two existing accesses, one across Tottering Lane LWS, and one across Wressle Verge LWS. A further modified access to the north of Wressle Verge LWS will also be required, but lies outside of the LWS in its current design, including the visibility splay. Both a permanent bell mouth and visibility splay will be required for each, however the replacement of the hedgerows and retention of the verge turfs for use along the inside of the bell mouths, has been included within the landscape design. Management of the grass verges where they fall within the required visibility splays may discourage species richness (e.g. if regular mowing is required to keep the height of the grassland to a certain height), depending on the requirements of East Riding of Yorkshire Council highways team in line with their requirements in relation to highways safety. It is anticipated that the grassland towards the rear of these verges could be cut less frequently and/or to a higher height than at the front,	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design Approval Requirement 6. LEMP Requirement 11. CEMP

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					to encourage species diversity, with the front kept shorter for safety reasons. Of the existing access points, the associated visibility splays are currently managed in this way, with the LWSs remaining designated for their species rich verges. One approximately 10m section of hedgerow along the northern visibility splay for a new access on Tottering Lane will require removal, however this is replaced within the field behind (outside of where it would affect visibility). Where temporary habitat loss is unavoidable, reinstatement will be undertaken after construction where practicable. Large areas of grassland creation are included within the landscape design throughout the Solar PV Areas, both around the panels and in the field margins of each field. These can be managed towards LWS criteria.				
EC-20	Ecology	Soils and Agriculture	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	Sustainable management of soil resources which are disturbed by the Scheme (and their associated seedbanks) and support the habitats within the Site will be undertaken, based upon standard industry good practice measures such as those in Defra's Code of Practice, ensuring that stored soils retain their quality and function. Additionally, soils of different types or supporting different habitats will be stored separately and replaced in the area they were taken from so that the incorporated seedbank is not lost.	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design Approval Requirement 11. CEMP Requirement 15. SMP
EC-21	Ecology	MA&D Landscape and Visual	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	The Solar PV Site perimeter security fencing will be implemented early in the construction phase to secure the Solar PV Site and prevent construction activity in proximity to peripheral habitats and retained habitats within the Solar PV Site. This fencing will remain in place throughout the duration of the decommissioning works, being the last element of infrastructure to be removed. The fence design will include gaps at the base to allow mammals that may use retained habitats, including, badger, brown hare, and hedgehog, to pass underneath at strategic locations. Any temporary fencing present during construction (for example on the Grid Connection Corridor) and permanent Solar PV Site perimeter fencing will also allow continued movement of otter along watercourses where they have been found to be present. Preparation of mitigation strategies for protected species and, where required, application for species licences from Natural England for translocation of animals away from construction	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 5. Detailed Design Approval Requirement 11. CEMP Requirement 18. Decommissioning and Restoration Requirement 8. Fencing

ID	Primary Topic (primary driver for mitigation)	Secondary Topic (secondary drivers for mitigation)	ES Document Source	Effect	Mitigation Measures (including any monitoring required)	Embedded or Additional Mitigation?	Phase (Construction, Operation or Decommissioning)	Responsibility (e.g. Applicant, Contractor)	Securing Mechanism
					areas sufficiently in advance of the works to meet with the optimum time for mitigation and to minimise any changes to the construction programme.				
EC-22	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	Checks for nesting birds listed under Schedule 1 of the WCA 1981 (as amended), especially barn owl and hobby will be undertaken prior to construction and decommissioning (including the appropriate season prior to for monitoring purposes, and immediately prior to for vegetation clearance) and will be carried out where the Scheme intersects or passes close to suitable breeding habitats or known breeding locations for these species. If nesting Schedule 1 birds are found, a suitably qualified ornithologist will be consulted to advise whether a temporary no disturbance buffer around the nest is required to avoid disturbance to Schedule 1 breeding species, the size of which will be determined by the species, stage of nesting and construction activity proposed.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
EC-23	Ecology	Noise and Vibration	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	There are records of hobby nesting in close proximity to the site. The location of the nest is confidential. Mitigation measures will therefore be further detailed in detailed CEMP. Measures will include: <ul style="list-style-type: none"> • Installation of nest baskets in appropriate locations prior to breeding season /the construction works to encourage use of alternative nest sites; • Relevant noise reducing measures such as not letting vehicles idle; • Set up of any accesses, tracks or Construction Compounds in the vicinity of historic nests sites prior to breeding season (noting that this species does not always return to the same nest site) • Layout of Construction Compounds in the vicinity of historic nests sites to be designed with input from an ornithologist. 	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
EC-24	Ecology	Landscape and Visual	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential	Works to any buildings used by barn owl will be suitably timed to avoid direct impacts to barn owl (i.e., injury or killing) and will be carried out only following inspection by a suitably licenced person and if absence is confirmed. Barn owl boxes will be installed in suitable locations to provide suitable alternative roost/ nesting sites. Information on the types of boxes that will be installed is provided in the Framework LEMP [EN010143/APP/7.14] .	Embedded	Construction	Applicant Contractor	Requirement 6. LEMP Requirement 11. CEMP

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				direct and indirect effects on associated species.					
EC-25	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction or decommissioning – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	Reasonable avoidance measures, including appropriate buffers (up to 30 m) around any identified active badger setts or retained trees with bat roost suitability (buffer of 15m) throughout the Site will be implemented. Implementation of measures to avoid animals being injured or killed within construction and decommissioning working areas, through excluding them from such areas and preventing them falling into and becoming trapped in excavations.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
EC-26	Ecology	Arboriculture	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	Trees with moderate and high bat roost suitability have been avoided through design, with the exception of one at this stage (T872 on Pear Tree Ave), which will be addressed during detailed design to adjust the taper of the access bellmouth in order to retain the tree. Where the removal or reduction of trees with low bat roost suitability is unavoidable, they will be soft/section felled in accordance with a Method Statement, under an ecological watching brief. Should additional trees be identified for removal or reduction which are suitable for roosting bats, further surveys will be undertaken as necessary, which may identify the requirement for additional mitigation and/or a Natural England mitigation licence, where impacts to roosting bats cannot be avoided. Where further surveys are necessary, and for the subsequent requirements and mitigation regarding loss of or disturbance to trees, the relevant guidance at the time would need to be followed which may differ from that in place when previous surveys were conducted.	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design for Approval Requirement 11. CEMP
EC-27	Ecology	Arboriculture	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction or decommissioning – resulting in temporary or permanent reduction in habitat	Specific tree protection measures will be implemented, including fencing and construction exclusion zones. Tree Root Protection fencing will be erected around retained trees, in line with 'British Standard BS 5837: Trees in relation to design, demolition and construction – Recommendations' and these undeveloped buffers will be of a radius of at least 15 x stem diameter (measured at 1.5m) for individual veteran/ancient trees, 15 m from woodlands, individual trees and hedgerows with trees and at least 10 m from hedgerows without trees.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 6. LEMP Requirement 11. CEMP Requirement 18. Decommissioning and Restoration

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				extent and potential direct and indirect effects on associated species.					
EC-28	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	Habitats to be temporarily lost or damaged during construction would be fully reinstated on a like-for-like basis at the same location on completion of construction works, where practical. Some habitats within the Solar PV Site would be restored and /or created and managed with the aim of increasing their biodiversity value in the long-term.	Embedded	Construction	Applicant Contractor	Requirement 6. LEMP Requirement 11. Requirement 12. CEMP
EC-29	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	A suitably experienced ECoW (or similar) will be employed/contracted to advise on relevant environmental commitments, the findings of the updated surveys, protected species licencing requirements and with reference to the relevant project programmes.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 6. LEMP Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
EC-30	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	Relevant site staff would receive toolbox talks on the ecological risks present, legal requirements and working arrangements necessary to comply with legislation. Toolbox talks would be repeated as necessary over the duration of the relevant works.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 6. LEMP Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
EC-31	Ecology	-	Chapter 8: Ecology	Clearance or damage of habitat	Updated species surveys, including but not limited to bats, breeding and non-breeding (wintering) birds, otter, water vole	Embedded	Construction	Applicant Contractor	Requirement 6. LEMP

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			[EN010143/APP/6.1]	to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	and badger, would be completed as appropriate to re-confirm the status of protected species identified, to support protected species licence applications, if required. Such surveys would be undertaken sufficiently far in advance of construction works to account for seasonality constraints and to allow time for the implementation of any necessary mitigation, prior to construction.				Requirement 11. CEMP
EC-32	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	Additional surveys may be required during the advance works, site clearance and construction phase as advised by the Applicant's ecologist, based on the findings of the updated walkover and protected species surveys, or otherwise as identified as appropriate by the Applicant or their appointed contractor.	Embedded	Construction	Applicant Contractor	Requirement 6. LEMP Requirement 11. CEMP
EC-33	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate construction – resulting in temporary or permanent reduction in habitat extent and potential direct and indirect effects on associated species.	Immediately prior to site clearance and the start of construction in each relevant part of the Site, further site walkover surveys would be undertaken by the ECoW (or ecologist) to confirm whether the risks remain as previously assessed and/or to confirm the correct implementation of impact avoidance measures (e.g. protected species stand-offs). The scope of the required walkovers would be defined on a case-by-case basis, in consultation with the project team, or other relevant statutory consultees as necessary, based on the specific risks.	Embedded	Construction	Applicant Contractor	Requirement 6. LEMP Requirement 11. CEMP
EC-34	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	Clearance or damage of habitat to facilitate decommissioning – resulting in temporary or permanent reduction in habitat extent and potential	Preparation of mitigation strategies for protected species and, where required, application for species licences from Natural England for translocation of animals away from decommissioning areas sufficiently in advance of the works to meet with the optimum time for mitigation and to minimise any changes to the construction programme.	Embedded	Decommissioning	Applicant Contractor	Requirement 18. Decommissioning and Restoration

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				direct and indirect effects on associated species.					
EC-35	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	Significant adverse effects on the integrity of European designated ecology sites	<p>To prevent significant adverse effects on the integrity of European sites, mitigation in the form of maintained agricultural land and creation of permanent wet/damp grassland will be provided as part of the Ecology Mitigation Areas 1g and 1h. Within this area a minimum of 30 ha of land (an amount that mirrors the functional field size supporting recorded peak counts of golden plover and pink-footed goose) will be specifically maintained on an annual basis to deliver adequate habitat to offset the loss of arable farmland used by golden plover and pink-footed goose.</p> <p>Improved management techniques on selected arable plots will ensure that suitable food sources are permanently available throughout winter, reducing the need for travel and associated energy expenditure. Additionally, by ensuring as little disturbance as possible, there will be fewer stressors and foraging interruptions on birds. For golden plover, the creation of permanent grassland which is wet during the winter months, is likely to provide more reliable foraging opportunities with higher densities of soil invertebrates, than the temporary conditions provided by ploughing during winter months.</p> <p>Therefore, mitigation will focus on providing the following:</p> <ul style="list-style-type: none"> Golden plover: damp/wet permanent grassland to support high densities of invertebrates. Pink-footed goose: sensitively managed arable farmland, i.e., through retention of winter stubbles through to at least February, following by sowing of cereal crop. <p>The location for delivering the required mitigation is land immediately west of the River Foulness, in Ecology Mitigation Areas 1g and 1h.</p> <p>Within the Ecology Mitigation Area (shown on Figure 2-3, ES Volume 3 [EN010143/APP/6.3]), at least 15 ha of damp/wet permanent grassland will be created and managed for foraging and roosting golden plover adjacent to the River Foulness. This lies within flood zone 3 and is currently predominantly agricultural land farmed at risk due to periodic flooding from the River Foulness. This will be secured as part of the Framework LEMP [EN010143/APP/7.14]</p>	Additional	Construction	Applicant Contractor	Requirement 5. Detailed Design for Approval Requirement 6. LEMP Requirement 11. CEMP

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					<p>A suitably sized area of land within the Ecology Mitigation Area (shown on Figure 2-3, ES Volume 3 [EN010143/APP/6.3]) will be farmed on a managed rotation to ensure that a minimum of 15 ha of land within that area is in the required regime (retention of winter stubbles followed by sowing of cereal crop) each year. This will be secured through an agreed management plan and is set out in the Framework LEMP [EN010143/APP/7.14].</p> <p>A series of blind linear foot drains will be created horizontally across 15ha of the Golden Plover Mitigation Zone which will increase the likelihood of creating ideal conditions for the invertebrate assemblages on which golden plover rely. These drains will be created along the western side of the mitigation area within the more level ground, with the following criteria:</p> <ul style="list-style-type: none"> • Gently sloping edges for permitting access and maximising invertebrate habitat niches; • Designed to maintain shallow water levels and maximise the edge habitat, with a depth of 30cm; • Minimum width of 1-2m, with variable lengths to be refined as required within the locations, in accordance with the habitat and topography; and, • Good level of habitat provision per hectare of mitigation land delivered. 				
EC-36	Ecology	Noise and Vibration	Chapter 8: Ecology [EN010143/APP/6.1]	Impacts on otter from horizontal direction drilling activities	To minimise any potential for noise disturbance to otter using the River Derwent, River Ouse and Watercourse DE53, temporary/mobile noise fencing will be utilised surrounding the HDD entry points at HDD3, HDD5 and HDD6. Precautionary portable noise fencing will be utilised around the above three specific noise generating HDD locations. This fencing will be temporary and will be moved to another location as soon as the construction noise for the noise generating activity of concern is complete	Additional	Construction	Applicant Contractor	Requirement 6. LEMP Requirement 11. CEMP
EC-37	Ecology	-	Chapter 8: Ecology [EN010143/APP/6.1]	Enhancement opportunities	<p>Habitat boxes will be installed on suitable features (buildings and trees) within the Site to provided additional nesting and roosting opportunities for bats and a range of bird species, including barn owl. Information on the types of boxes that will be installed is provided in the Framework LEMP [EN010143/APP/7.14].</p> <p>A number of reptile and amphibian hibernacula/refugia will be provided utilising logs created during the removal of trees, through small bunds over logs/inert rubble, or brash piles.</p>	Additional	Construction	Applicant Contractor	Requirement 5. Detailed Design Requirement 6. LEMP Requirement 11. CEMP

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					These will be sited within 200m of the retained ponds across the Site.				
FL-01	Flood Risk, Drainage, Water Environment	Ecology	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent) due to deposition or spillage of soils, sediments, oils, fuels, or other construction chemicals, or through uncontrolled site run-off including dewatering of excavations or piling.	Relevant Good Practice Guidance (GPPs) and Pollution Prevention Guidance (PPGs) will be followed, as well as additional good practice guidance for the water environment including key CIRIA documents and British Standards for flood risk, drainage, and the water environment during construction and decommissioning.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
FL-02	Flood Risk, Drainage, Water Environment	Ground Conditions Ecology	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent) due to deposition or spillage of soils, sediments, oils, fuels, or other construction chemicals, or through uncontrolled site run-off including dewatering of excavations or piling	All reasonably practicable measures will be taken to prevent the deposition of fine sediment or other material in, and the pollution by sediment of, any existing watercourse arising from construction activities. The measures will accord with the principles set out in industry guidelines including the CIRIA report 'C532: Control of water pollution from construction sites and CIRIA report 'C648 Control of water pollution from linear construction sites'. Measures may include use and maintenance of temporary lagoons, tanks, bunds and fabric silt fences etc. or silt screens as well as consideration of the type of plant used.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
FL-03	Flood Risk, Drainage,	Ground Conditions	Chapter 9: Flood Risk, Drainage,	Pollution of surface water or groundwater (and	Where practical, earthworks will be undertaken during the drier months of the year and earth moving works will avoid periods of very wet weather, to minimise the risk of generating	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP

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	Water Environment		and Water Environment [EN010143/APP/6.1]	any designated ecology sites that are water dependent) due to deposition or spillage of soils, sediments, oils, fuels, or other construction chemicals, or through uncontrolled site run-off including dewatering of excavations or piling	runoff contaminated with fine particulates. However, it is likely that some working during wet weather periods will be unavoidable, in which case other mitigation measures (see below) will be implemented to control fine sediment laden runoff. Water may also be required to dampen earthworks during dry weather to reduce dust impacts, and any runoff generated will need to be appropriately managed by the Contractor in accordance with the pollution prevention principles.				Requirement 18. Decommissioning and Restoration
FL-04	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent)	To protect watercourses from fine sediment runoff, topsoil/subsoil will be stored a minimum of 20 m from watercourses on flat lying land. Where this is not practicable, and it is to be stockpiled for longer than a two-week period, the material will either be covered with geotextile mats, seeded to promote vegetation growth, or runoff prevented from draining to a watercourse without prior treatment.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
FL-05	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent).	Appropriately sized runoff storage areas for the settlement of excessive fine particulates in runoff will be provided.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
FL-06	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent).	Construction and decommissioning site runoff will either be treated on Site and discharged under a Water Discharge Activity Permit from the Environment Agency to Controlled Waters (potentially also including infiltration to ground) or to the nearest public sewer with sufficient capacity for treatment following discussions with Yorkshire Water, or else removed from site for disposal at an appropriate and licensed waste facility.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
FL-07	Flood Risk, Drainage,	-	Chapter 9: Flood Risk, Drainage,	Pollution of surface water or groundwater (and	Equipment and plant are to be washed out and cleaned in designated areas within the Construction and decommissioning Compounds or at Johnson's Farm, where	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP

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	Water Environment		and Water Environment [EN010143/APP/6.1]	any designated ecology sites that are water dependent).	runoff can be isolated for treatment before disposal as outlined above.				Requirement 18. Decommissioning and Restoration
FL-08	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent).	Mud deposits will be controlled at entry and exit points to the Site using wheel washing facilities and/or road sweepers operating during earthworks activities or other times as required.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
FL-09	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent).	Debris and other material will be prevented from entering surface water drainage, through maintenance of a clean and tidy site, provision of clearly labelled waste receptacles, grid covers and the presence of site security fencing.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
FL-10	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent).	Should the use of herbicide or other spray chemical be required, a method statement, operating procedure or similar will be prepared prior to the work commencing. This will include measures to protect ground and surface water, including that such work would not be undertaken during or before rainfall and high winds. Such work will only be carried out by competent personnel using products approved for UK use with adherence to manufacturer's instructions.	Embedded	Construction Operation Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 12. OEMP Requirement 18. Decommissioning and Restoration
FL-11	Flood Risk, Drainage, Water Environment	Ground Conditions	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent).	A Water Management Plan (WMP) will include details of pre, during and post-construction and post-decommissioning 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 Operation Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 12. OEMP Requirement 18. Decommissioning and Restoration
FL-12	Flood Risk, Drainage,	-	Chapter 9: Flood Risk,	Pollution of surface water or	A temporary drainage system will be developed to prevent runoff contaminated with fine particulates from entering	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP

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	Water Environment		Drainage, and Water Environment [EN010143/APP/6.1]	groundwater (and any designated ecology sites that are water dependent).	surface water drains without treatment. This will include identifying all land drains and water features in the Site and ensuring that they are adequately protected using drain covers, sand bags, earth bunds, geotextile silt fences, straw bales etc., or proprietary treatment (e.g. lamella clarifiers).				
FL-13	Flood Risk, Drainage, Water Environment	Ground Conditions	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent).	The Grid Connection Cable would be installed a minimum of 5 m beneath the bed in the case of the River Ouse and River Derwent given their scale; and a minimum of 1.5 m below Featherbed Drain, Loftsome Bridge Drain and the unnamed watercourse (DE53). A maximum depth would be finalised based on site specific risk assessment at each crossing location in order to minimise groundwater interactions where practicable. Information will be sought from the Environment Agency on the construction details of the flood defence embankments that may need to be crossed. This will inform the approach for directional drilling beneath the Rivers Ouse and Derwent and associated flood defences. There will be a minimum 16 m buffer between HDD send and receive pits from the landward toe of flood defences.	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design for Approval Requirement 11. CEMP
FL-14	Flood Risk, Drainage, Water Environment	Ground Conditions	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent).	A site-specific Hydraulic Fracture Risk Assessment would be developed prior to construction following further investigation of specific ground conditions at the crossing locations, and appropriate mitigation developed in line with best construction practice. There is also a need to manage drilling muds and wastewater so that this will not be spilt into the channel when working close to the banks of a watercourse.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
FL-15	Flood Risk, Drainage, Water Environment	Ground Conditions	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent).	Directional drilling, or other trenchless techniques, would be undertaken by a specialist contractor and the water column above the drill path would be continuously monitored during drilling. It is acknowledged that drill fluid leakage into a watercourse is not a common problem, particularly given the proposed depths. However, where there is an increased perceived risk (i.e. lack of drilling mud returns) the drilling/boring operation would be suspended, remediation action implemented, and subsequently the methodology for that crossing re-evaluated.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
FL-16	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment	Pollution of surface water or groundwater (and any designated ecology sites that	The drill fluids used within the drilling machine would be water based, such as naturally occurring bentonite clay. The fluid component of the drilling mud would be mains water, obtained from a nearby supply and tankered to site when required.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP

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			[EN010143/APP/6.1]	are water dependent).	There would be some recycling of drilling muds by the drilling plant used.				
FL-17	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent).	The bentonite within the drilling fluid enables the fluid to have sufficient viscosity to carry the cutting chips back to the surface machine whilst lubricating and cooling the drilling bit. The drilling fluid that returns to the drilling rig would be recycled within that drilling rig. Any wastewater/drilling products that are not recycled will be stored and removed from the Site by a suitable waste management contractor and disposed of at a licenced wastewater facility	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
FL-18	Flood Risk, Drainage, Water Environment	Ecology	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent).	The sections of the cables that will be installed via trenchless approaches will require launch and reception pits to be installed at each crossing. The send and receive pit excavations for drilling/boring will be located at least 10 m from the watercourse edge, as measured from the top of bank (or 16 m from the landward toe of flood defences). This may require survey work (prior to construction) in some locations to adequately define and agree the top of bank position.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
FL-19	Flood Risk, Drainage, Water Environment	Ground Conditions	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent).	The exact dimensions of the send and receive pits would be determined by site and ground conditions but will be kept to a safe minimum in terms of length, width and depth. Maximum parameters considered here as a worst case are dimensions of 8 m length x 4 m width x 1 m depth. A shoring system appropriate to the ground conditions will be used as appropriate to minimise water ingress into the pits. To be chosen based on suitability for the site conditions by the specialist contractor. The ingress of any groundwater will be carefully managed through design of the send or receive pit, shoring method, and a pumping and treatment system. Excessive ingress of water would make the pit unsafe and thus it is important that ingress is minimised and that a suitable system of managing that water is implemented.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
FL-20	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Pollution of surface water or groundwater (and any designated ecology sites that are water dependent).	Once the cable is installed beneath the watercourse the pits and any cable trenches will be backfilled to the original ground level and seeded to reduce the risk of runoff and fine sediments entering the watercourse.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP

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FL-21	Flood Risk, Drainage, Water Environment	Ecology	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Temporary impacts on the hydromorphology of watercourses from open-cut watercourse crossings or temporary vehicle access as may be required.	A pre-works morphology survey of the channel of each watercourse to be crossed will be undertaken prior to construction. The pre-works survey is to ensure that there is a formal record of the condition of each watercourse prior to commencement of works to install cables beneath the channel.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
FL-22	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Temporary impacts on the hydromorphology of watercourses from open-cut watercourse crossings or temporary vehicle access as may be required.	It is assumed that where open-cut crossings are required that water flow would be maintained by damming and over-pumping or fluming. Works will be carried out in the drier months where practicable as this would reduce the risk of pollution propagating downstream, particularly in the case of ephemeral watercourses. Once the watercourses are reinstated, silt fences, geotextile matting or straw bales will be used initially to capture mobilised sediments until the watercourse has returned to a settled state. It will be a requirement that the watercourses are reinstated as found and water quality monitoring will be undertaken prior to, during, and following on from the construction activity. Regular observations of the watercourses will also be required post-works during vegetation re-establishment of the banks, especially following wet weather, to ensure that no adverse impacts have occurred. These requirements will be secured in the WMP in the CEMP.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
FL-23	Flood Risk, Drainage, Water Environment	Transport and Access	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Temporary impacts on the hydromorphology of watercourses from open-cut watercourse crossings or temporary vehicle access as may be required.	Access tracks will be compacted stone tracks (Type 1 aggregate) over appropriate geotextile with gradient slopes (where required). Access tracks and passing places will adhere to the appropriate 10 m buffer from watercourses and ponds as outlined above (30 m in the case of the River Ouse, River Derwent and unnamed drain DE53), except where crossings are required.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
FL-24	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment	Temporary impacts on the hydromorphology of watercourses from open-cut	The Scheme layout has been designed to avoid new drainage ditch and watercourse crossings wherever practicable	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design for Approval Requirement 11. CEMP

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			[EN010143/APP/6.1]	watercourse crossings or temporary vehicle access as may be required.					
FL-25	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Temporary impacts on the hydromorphology of watercourses from open-cut watercourse crossings or temporary vehicle access as may be required.	Where existing crossings are to be used, it is assumed as a worst case that some degree of strengthening or improvement of the structures may be required (which may require minor widening). Where such upgrades are required, they will be a maximum extension to the structure width of 2 m. Where a new drainage ditch crossing is required, an open span bridge crossing will be used, with the specific type of crossing selected being determined based on site specific factors and in consultation with the relevant authority (generally the IDB/LLFA for the Solar PV Site). Bridge foundations would be set back from the edge of the channel. There would be no new culverts as part of the Scheme. Tracks will be permeable, and localised SuDS, such as swales and infiltration trenches, will be used to control runoff if required.	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design for Approval Requirement 11. CEMP
FL-26	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Temporary impacts on the hydromorphology of watercourses from open-cut watercourse crossings or temporary vehicle access as may be required.	Where extensions to existing culverts are required, they will be designed appropriately to maintain connectivity along watercourses for aquatic species and riparian mammals, where these are shown to be present. Where practicable, culverts extensions and any improved structure will be set 150 mm below bed level to allow sedimentation and a naturalised bed to form, which will maintain longitudinal connectivity for aquatic fauna.	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design for Approval Requirement 11. CEMP
FL-27	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Temporary impacts on the hydromorphology of watercourses from open-cut watercourse crossings or temporary vehicle access as may be required.	Length-for-length equivalent watercourse enhancements are required for each new culvert extension, and to ensure compliance against Water Framework Directive (WFD) objectives.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
FL-28	Flood Risk, Drainage,	-	Chapter 9: Flood Risk, Drainage,	Temporary impacts on the hydromorphology of	In addition to these crossings within the Solar PV Site, a temporary open span bridge is to be installed to facilitate the	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design for Approval

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	Water Environment		and Water Environment [EN010143/APP/6.1]	watercourses from open-cut watercourse crossings or temporary vehicle access as may be required.	construction of the Grid Connection Corridor on Drain DE53 at NGR SE 69239 29218. Bridge foundations would again be set back from the edge of the channel to ensure continuity of riparian habitat.				Requirement 11. CEMP
FL-29	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Temporary impacts on the hydromorphology of watercourses from open-cut watercourse crossings or temporary vehicle access as may be required.	Depending on the design of any watercourse crossings, floodplain compensation may also be required on a 'like for like' and 'level for level' basis. Alterations to surface water flow pathways will also need to be considered and, if necessary, mitigated. This will include consideration of the span and soffit height of any works to existing crossings to ensure no increase in flood risk.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
FL-30	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Temporary changes in flood risk from changes in surface water runoff (e.g. disruption of stream flows during any potential culvert construction works) and exacerbation of localised flooding, due to deposition of silt, sediment in drains, ditches.	Construction works undertaken adjacent to, beneath and within watercourses will comply with relevant guidance, including Environment Agency and other guidance documents (e.g. GPP 5: Works and maintenance in or near water)	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
FL-31	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Temporary changes in flood risk from changes in surface water runoff (e.g. disruption of stream flows during any potential culvert construction works) and exacerbation of localised flooding, due to deposition of silt, sediment in drains, ditches.	Topsoil and other construction/decommissioning materials would be stored outside of the 0.5% Annual Exceedance Probability (AEP) extent for areas at tidal flood risk and outside of the 1% AEP extent for areas at fluvial flood risk. If areas located within Flood Zone 3 are to be utilised for the storage of construction and decommissioning materials, this would be done in accordance with the applicable flood risk activity regulations, if required.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration

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FL-32	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Temporary changes in flood risk from changes in surface water runoff (e.g. disruption of stream flows during any potential culvert construction works) and exacerbation of localised flooding, due to deposition of silt, sediment in drains, ditches.	Connectivity would be maintained between the floodplain and the adjacent watercourses, with no changes in ground levels within the floodplain as far as practicable.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
FL-33	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Temporary changes in flood risk from changes in surface water runoff (e.g. disruption of stream flows during any potential culvert construction works) and exacerbation of localised flooding, due to deposition of silt, sediment in drains, ditches.	During the construction and decommissioning phases, the Contractor would monitor the weather forecasts daily, and review the weekly and monthly weather forecasts each week, and plan works accordingly. For example, works in the channel of any watercourses would be avoided or halted were there to be a significant risk of high flows or flooding.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
FL-34	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Temporary changes in flood risk from changes in surface water runoff (e.g. disruption of stream flows during any potential culvert construction works) and exacerbation of localised flooding, due to deposition of silt, sediment in drains, ditches.	The UK Government's Flood Warning Service issues flood warnings and alerts to registered users. The user can specify which areas they require warnings and alerts for. Key contractor personnel (to be identified within the detailed CEMP) would be registered with the service and would be responsible for ensuring this information was disseminated and the Emergency Response Plan was followed.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
FL-35	Flood Risk, Drainage,	-	Chapter 9: Flood Risk, Drainage, and Water	Potential impacts on groundwater resources and local water supplies	A set of minimum standards has been provided by Yorkshire Water to ensure adequate protection of the public water supply where apparatus is proposed to cross water mains or apparatus. This includes a minimum clearance of 150mm	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design for Approval

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	Water Environment		Environment [EN010143/APP/6.1]	(licenced and unlicenced abstractions) and potentially the baseflow to watercourses from temporary dewatering of excavations or changes in hydrology.	where apparatus crosses above or below a water main for main diameters up to 250mm. For mains of diameter greater than 250mm Yorkshire Water requires a minimum clearance of 300mm where apparatus cross above or below these water mains.				Requirement 11. CEMP
FL-36	Flood Risk, Drainage, Water Environment	Ecology	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Impacts on water quality in watercourses and groundwater from run-off and the potential for accidental spillages from new permanent hardstanding and maintenance activities.	Watercourse buffers of 10 m from solar PV infrastructure (except in the case of open-cut cable installation) and 30 m in the case of the River Ouse, River Derwent and unnamed drain (DE53) will be implemented. For small channel watercourses/agricultural drainage channels this would be measured from the top of bank as required by IDBs (confirmed during consultation on 15 March 2023, and this will likely require survey). For larger watercourses with channel widths typically greater than 3 m (such as the River Ouse and River Derwent), this would be measured from the water's edge / channel extents under normal flow conditions.	Embedded	Operation	Applicant	Requirement 5. Detailed Design for Approval Requirement 12. OEMP
FL-37	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Potential impacts on the rate and volumes of surface water run-off entering local watercourses and increasing the risk of flooding.	Where panels are located within Flood Zone 3, the tilt range of the tracker panels will be restricted to ensure that a 300 mm freeboard above the modelled design flood event (1% Annual Exceedance Probability (AEP) plus climate change) is maintained at all times regardless of whether there is a flood event occurring or not. Tilt range can be set on a solar PV table by solar PV table basis and therefore will vary across the Flood Zone 3 area. Additionally, if increasing water levels are observed or if a flood warning is received, panels will be remotely moved into their horizontal (night-time storage position) of 2.3 m above ground level	Embedded	Operation	Applicant	Requirement 5. Detailed Design for Approval Requirement 12. OEMP
FL-38	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Potential impacts on the rate and volumes of surface water run-off entering local watercourses and increasing the risk of flooding.	To compensate for the approximate 150 m ³ of floodplain volume lost as a result of the Scheme in Solar PV Area 2a, flood compensation will be delivered along the edge of Flood Zone 3 in this area to provide this storage. The floodplain compensation indicative area can be seen in Figure 9-4, ES Volume 3 [EN010143/APP/6.3] . The precise location and design of the compensation area will be determined at detailed design.	Embedded	Operation	Applicant	Requirement 5. Detailed Design for Approval Requirement 12. OEMP

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					In Solar PV Area 2a, where the solar PV panels are located within Flood Zone 3, the tilt range of the tracker panels will be restricted to ensure that a 300 mm freeboard above the estimated flood event is maintained at all times. Where depressions are located, the panels will either traverse the depression and maintain the same minimum panel level as the highest ground level either side or will stop at the depression if it is too wide.				
FL-39	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Potential impacts on the rate and volumes of surface water run-off entering local watercourses and increasing the risk of flooding.	To compensate for the approximate 100 m ³ of floodplain volume lost as a result of the Scheme in Solar PV Area 1e, flood compensation is proposed along the edge of Flood Zone 3 in this area to provide this storage. The floodplain compensation indicative area can be seen in Figure 9-4, ES Volume 3 [EN010143/APP/6.3] . The precise location and design of the compensation area will be determined at detailed design. To increase resiliency of the panels in both parcels, including during the 1% AEP H++ event, when a flood warning is issued by the Environment Agency, the panels will be set to their horizontal position where the height above ground level will be 2.30 m. The Site will be monitored 24 hours a day and site inspections will occur daily so operatives will set the panels to the horizontal position if increasing water levels are observed or if a flood warning is received. This is done remotely, likely from the Operations and Maintenance Hub at Johnson's Farm. Field Stations located within Flood Zone 2 and in areas of surface water flood risk will be raised a minimum of 300 mm above the modelled design flood event.	Embedded	Operation	Applicant	Requirement 5. Detailed Design for Approval Requirement 12. OEMP
FL-40	Flood Risk, Drainage, Water Environment	-	Chapter 9: Flood Risk, Drainage, and Water Environment [EN010143/APP/6.1]	Potential impacts on groundwater resources and local water supplies	A Framework Surface Water Drainage Strategy Appendix 9-4, ES Volume 2 [EN010143/APP/6.2] has been developed and includes measures to manage surface water runoff from the Grid Connection Substations in Solar PV Area 1c during operation and will reduce the likelihood and severity of potential pollution incidents and flooding affecting watercourses and the local ditch network. A detailed Surface Water Drainage Strategy for the Grid Connection Substations will be developed post-consent. This is to be informed by the detailed substation design and infiltration testing data.	Embedded	Operation	Applicant	Requirement 12. OEMP
LV-01	Landscape and Visual Amenity	Ecology	Chapter 10: Landscape and Visual Amenity	Loss of existing landscape features, e.g. vegetation	The Outline LEMP includes proposed measures to mitigate the potential impacts and effects on landscape (and biodiversity) features, and to enhance the landscape and	Embedded	Construction	Applicant Contractor	Requirement 6. LEMP

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			[EN010143/APP/6.1]		biodiversity value of the Order limits (i.e.: the green infrastructure), which will be adhered to.				Requirement 11. CEMP
LV-02	Landscape and Visual Amenity	Ecology	Chapter 10: Landscape and Visual Amenity [EN010143/APP/6.1]	Loss of existing landscape features, e.g. vegetation	A detailed LEMP will be submitted to and approved by the relevant planning authority including measures to: <ul style="list-style-type: none"> Protect and retain existing trees and vegetation; Manage and enhance landscape and biodiversity; Ensure compliance through management and monitoring; and Ensure maintenance and management, including a landscaping maintenance plan. 	Embedded	Construction	Applicant Contractor	Requirement 6. LEMP Requirement 11. CEMP
LV-03	Landscape and Visual Amenity	Ecology Arboriculture	Chapter 10: Landscape and Visual Amenity [EN010143/APP/6.1]	Loss of existing landscape features, e.g. vegetation	The layout of the Scheme includes minimum offsets of: <ul style="list-style-type: none"> 15 m from woodlands (noting there is no ancient woodland within or adjacent to the Site); 10 m from hedgerows increasing to 15 m where there are hedgerow trees; 15 m from individual trees; 10 m from ditches and drains (except where crossed by cables); 30 m from Rivers Ouse and Derwent; and 10 m from existing ponds. 	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design for Approval Requirement 6. LEMP Requirement 11. CEMP
LV-04	Landscape and Visual Amenity	Transport and Access	Chapter 10: Landscape and Visual Amenity [EN010143/APP/6.1]	Loss of existing landscape features, e.g. vegetation	The layout of the Scheme will use existing farm tracks and field openings as the preferred routes for construction access, minimising loss of hedgerows, where practicable.	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design for Approval Requirement 6. LEMP Requirement 11. CEMP
LV-05	Landscape and Visual Amenity	Ecology	Chapter 10: Landscape and Visual Amenity [EN010143/APP/6.1]	Loss of existing landscape features, e.g. vegetation	The indicative Grid Connection Cable and Interconnecting Cable routes have been designed to minimise disturbance of existing vegetation, where practicable. Where selective vegetation removal is required, replacement planting will be reinstated, where practicable.	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design for Approval Requirement 6. LEMP Requirement 11. CEMP

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LV-06	Landscape and Visual Amenity	Ecology	Chapter 10: Landscape and Visual Amenity [EN010143/APP/6.1]	Visibility of construction activities	The Solar PV Site perimeter fence will be a stock proof mesh-type security fence with wooden posts., up to 2.2 m in height.	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design for Approval Requirement 6. LEMP Requirement 11. CEMP
LV-07	Landscape and Visual Amenity	Ecology	Chapter 10: Landscape and Visual Amenity [EN010143/APP/6.1]	Visual Impacts on receptors	The proposed lighting has been designed to avoid and minimise the potential for adverse landscape and visual effects. Daily checks of operational areas will note any instances where lighting requires adjustment.	Embedded	Construction Operation Decommissioning	Applicant Contractor	Requirement 5. Detailed Design for Approval Requirement 6. LEMP Requirement 11. CEMP Requirement 18. Decommissioning and Restoration Requirement 13. OEMP
LV-08	Landscape and Visual Amenity	Ecology	Chapter 10: Landscape and Visual Amenity [EN010143/APP/6.1]	Tree Loss, or Direct or indirect damage to retained trees	Retained/ enhanced vegetation and Additional Planting Existing trees and vegetation will be retained to aid screening of views, where possible and protected during construction. Tree protection measures and the methodology for sensitive works near retained trees will be developed as part of an Arboricultural Method Statement (AMS) and final Tree Protection Plan (TPP). Where tree loss is unavoidable it will be mitigated with a scheme of new tree planting. New planting including trees and hedgerows will be managed and maintained.	Additional	Construction Operation	Applicant Contractor	Requirement 5. Detailed Design for Approval Requirement 6. LEMP
LV-09	Landscape and Visual Amenity	Ecology	Chapter 10: Landscape and Visual Amenity [EN010143/APP/6.1]	Visual Impacts on receptors	The site will be restored in accordance with the Outline Landscape and Ecological Management Plan (OLEMP)	Embedded	Decommissioning	Applicant Contractor	Requirement 6. LEMP Requirement 18. Decommissioning and Restoration
LV-10	Arboriculture	Ecology Landscape	Chapter 10: Landscape and Visual Amenity	Tree Loss, or Direct or indirect damage to retained trees.	No ancient or veteran trees will be removed.	Embedded	Construction	Applicant Contractor	Requirement 5. Detailed Design Requirement 6. LEMP

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			[EN010143/APP/6.1]						Requirement 11. CEMP
LV-11	Arboriculture	Ecology Landscape	Chapter 10: Landscape and Visual Amenity [EN010143/APP/6.1]	Tree Loss, or Direct or indirect damage to retained trees.	Where trees require pruning, the extent of pruning will be the minimum feasible to achieve the objective and works will be carried out in accordance with the principles of BS3998: 2010 Treework – Recommendations. The final extent of any pruning will be determined by the AMS submitted as part of the detailed CEMP and DEMP.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 6. LEMP Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
LV-12	Arboriculture	Ecology Ground Conditions	Chapter 10: Landscape and Visual Amenity [EN010143/APP/6.1]	Tree Loss, or Direct or indirect damage to retained trees.	The storage of materials and any washing, mixing or refuelling must take place in agreed allocated areas at least 5 m from the edge of the RPA of retained trees. Any slope effect must be taken into account and where there is a potential for run off, heavy duty polythene sheeting and sandbags must be in place as bunding to prevent toxic materials reaching RPAs.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 6. LEMP Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
LV-13	Arboriculture	Ecology Ground Conditions	Chapter 10: Landscape and Visual Amenity [EN010143/APP/6.1]	Tree Loss, or Direct or indirect damage to retained trees.	Where HDDs are routed beneath trees, the depth of drill will be a minimum of 2 m to avoid impacts to roots, as most roots do not typically develop deeper than this.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 5. Detailed Design for Approval Requirement 6. LEMP Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
NV-01	Noise and Vibration	-	Chapter 11: Noise and Vibration [EN010143/APP/6.1]	Volumes of noise that may cause public disturbance during construction and decommissioning operations	Best practicable means would be implemented during construction and decommissioning to minimise the effects on noise and vibration, including the implementation of a communication strategy.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 13. CTMP Requirement 18. Decommissioning and Restoration
NV-02	Noise and Vibration	-	Chapter 11: Noise and Vibration [EN010143/APP/6.1]	Impacts to nearby residents	Noise generating activities near residential properties, such as use of power tools or piling, would be limited to the hours between 08:00 and 18:00 from Monday to Friday and between 08:00 and 13:00 on Saturday.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
NV-03	Noise and Vibration	-	Chapter 11: Noise and	Impacts to nearby residents	For all works outside of core work periods the Section 61 application will set out the specific method of working,	Embedded	Construction	Applicant	Requirement 11. CEMP

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			Vibration [EN010143/APP/6.1]		calculations of noise levels at nearby receptors, the actual working hours required, noise monitoring locations, details of communication measures and the mitigation measures implemented to minimise noise and vibration impacts.			Contractor	
NV-04	Noise and Vibration	-	Chapter 11: Noise and Vibration [EN010143/APP/6.1]	Impacts to nearby residents	Core working hours onsite will be 07:00 to 19:00 Monday to Friday and 07:00 to 13:00 on Saturday, but will be shortened if working would necessitate artificial lighting and therefore the working day may be shorter in the winter months (with the exception of activities such as HDD which require continuous working). There will be no work on a Sunday or Bank Holiday unless crucial to construction (e.g., HDD which must be a continuous activity etc.) or in an emergency.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
NV-05	Noise and Vibration	-	Chapter 11: Noise and Vibration [EN010143/APP/6.1]	Vibration due to construction activities causing annoyance at Noise Sensitive Receptors (NSR) and damage to building structures	A construction vibration monitoring scheme shall be developed and agreed with the relevant local authorities following appointment of a principal contractor and prior to commencement of construction works. Vibration complaints will be monitored and reported to the Applicant for immediate investigation and action as set out in the detailed CEMP.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
NV-06	Noise and Vibration	-	Chapter 11: Noise and Vibration [EN010143/APP/6.1]	Disturbance during night time operations for HDD	As requirements and locations for HDD activities will not be finalised until a principal contractor is appointed, a hierarchy of mitigation measures is outlined to ensure that significant noise effects do not occur due to potential night-time works: <ul style="list-style-type: none"> Where practicable, avoid HDD works within 200 m (the distance at which significant effects are predicted at night) of residential receptors (although this will depend on the results of the ground investigation survey); The potential for the use of quieter equipment than listed in Appendix 11-4, ES Volume 2 [EN010143/APP/6.2] will be explored by the Contractor; and Depending on the location, plant and timing of works, temporary acoustic fencing will be installed around the HDD site boundary to screen receptors from noise emission if HDD works are required within 200 m of a sensitive receptor. This mitigation could provide 10 dB of attenuation when the noise screen completely screens the sources from the receiver.	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
NV-07	Noise and Vibration	-	Chapter 11: Noise and Vibration	Significant noise effects following application of	The Order limits are specifically designed to allow spatial flexibility at detailed design, which would allow a distance of separation greater than 15 m to be achieved where	Additional	Construction	Applicant Contractor	Requirement 11. CEMP

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			[EN010143/APP/6.1]	embedded mitigation measures	practicable, and where this is not practicable the use of temporary/mobile acoustic barriers will prevent noise levels exceeding the Significant Observed Adverse Effect Level (SOAEL). The Section 61 application would contain details on the methodology, communication strategy and monitoring. The hierarchy of mitigation measures for drilling activities will ensure that drilling activity noise effects will be reduced as far as reasonably practicable. This hierarchy includes maximising the distance from drill sites to sensitive receptors if required.				
NV-08	Noise and Vibration	-	Chapter 11: Noise and Vibration [EN010143/APP/6.1]	Noise and vibration from operational equipment.	Plant that will be used in the Scheme has not yet been finalised. Where practicable quieter plant than that considered in EIA will be incorporated into the final design. Quieter plant would be the most effective way of controlling noise emissions.	Embedded	Operation	Applicant	Requirement 12. OEMP
NV-09	Noise and Vibration	-	Chapter 11: Noise and Vibration [EN010143/APP/6.1]	Noise and vibration from operational equipment.	Field Stations and string inverters, if used, will be placed as far as practicable from sensitive receptors where the highest levels of noise were predicted. This will be a minimum distance of 250 m.	Embedded	Operation	Applicant	Requirement 5. Detailed Design for Approval Requirement 12. OEMP
NV-10	Noise and Vibration	-	Chapter 11: Noise and Vibration [EN010143/APP/6.1]	Noise and vibration from operational equipment.	Low frequency noise can be very difficult to predict with a high level of certainty and similarly hard to identify and resolve if present. This is because it can be generated by the unexpected interactions between system components and can be amplified by the geometry of the site and receptor buildings. The issue of low frequency noise will be considered during the detailed design post consent for the Grid Connection Substations and eliminated through design, or appropriately mitigated (isolation and attenuation measures).	Embedded	Operation	Applicant	Requirement 12. OEMP
SO-01	Socio-Economics and Land Use	Transport and Access Human Health	Chapter 12: Socio-Economics and Land Use [EN010143/APP/6.1]	Disruption to users of Public Rights of Way	Access to all existing PRoW will be retained during the construction phase, with no PRoW closures proposed. There will be a limited number of temporary PRoW diversions. The PRoW will be managed during the construction phase to ensure the safety of users and site staff	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP Requirement 17. PRoW
SO-02	Socio-Economics and Land Use	Transport and Access	Chapter 12: Socio-Economics	Disruption to users of Public Rights of Way	Several PRoW will require management to ensure user safety and accessibility. Management measures include, but are not limited to:	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP

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		Human Health	and Land Use [EN010143/APP/6.1]		<ul style="list-style-type: none"> Maximising visibility between construction and decommissioning vehicles and other users (i.e., pedestrians, cyclists, equestrian); Implementing traffic management (e.g., advanced signage to advise other users of the works); and Use of manned controls where the Scheme crosses PRow (i.e., marshals or banksmen), with a default priority that decommissioning traffic will give-way to other users. 				Requirement 12. OEMP Requirement 17. PRow
SO-03	Socio-Economics and Land Use	Transport and Access Human Health	Chapter 12: Socio-Economics and Land Use [EN010143/APP/6.1]	Disruption to users of Public Rights of Way	Controlling areas where the internal maintenance route crosses any existing PRow (such as by providing gates), permitting only operational traffic to utilise these internal routes within the Solar PV Areas. Operational traffic would give-way to other users when utilising the crossing points. Visibility will be maximised between operational vehicles and other users, with warning signage provided if required.	Embedded	Operation	Applicant Contractor	Requirement 12. OEMP Requirement 17. PRow
SO-04	Socio-Economics and Land Use	Human Health	Chapter 12: Socio-Economics and Land Use [EN010143/APP/6.1]	Disruption to users of Public Rights of Way	Provision of two Permissive routes. Two indicative routes are shown on Figure 2-3, ES Volume 3 [EN010143/APP/6.3] .	Embedded	Operation	Applicant	Requirement 5. Detailed Design for Approval Requirement 12. OEMP Requirement 17. PRow
AQ-01	Air Quality	-	Chapter 16: Other Environmental Topics [EN010143/APP/6.1]	Increased nitrogen dioxide (NO ₂) and particulate matter (PM ₁₀) from on-site and off-site construction vehicle/plant emissions. Increased particulates and deposited dust from Site activities, materials transportation, storage and	The adoption of good site practice will be implemented through measures to control dust as outlined within the Institute of Air Quality Management (IAQM) guidance, which are commensurate with the level of risk identified in the assessment and the construction phase activities for the Scheme. As decommissioning operations are predicted to be similar to construction, the same good practice measures are predicted to apply.	Embedded	Construction Operation Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 12. OEMP Requirement 18. Decommissioning and Restoration

ID	Primary Topic (primary driver for mitigation)	Secondary Topic (secondary drivers for mitigation)	ES Document Source	Effect	Mitigation Measures (including any monitoring required)	Embedded or Additional Mitigation?	Phase (Construction, Operation or Decommissioning)	Responsibility (e.g. Applicant, Contractor)	Securing Mechanism
				handling, including use of haul roads. Silt-laden run off, spillage of chemicals or oils and air borne dust emissions.					
AQ-02	Air Quality	Socio-economics	Chapter 16: Other Environmental Topics [EN010143/APP/6.1]	Increased exposure of receptors to air quality emissions due to lack of awareness	<ul style="list-style-type: none"> Develop and implement a Stakeholder Communications Plan that includes community engagement before work commences on-site; and Display the name and contact details of contact details for the Site Manager or alternative public interface with whom air quality and dust complaints/concerns can be lodged. 	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
AQ-03	Air Quality	Ground Conditions	Chapter 16: Other Environmental Topics [EN010143/APP/6.1]	Increased nitrogen dioxide (NO ₂) and particulate matter (PM ₁₀) from on-site and off-site construction vehicle/plant emissions. Increased particulates and deposited dust from Site activities, materials transportation, storage and handling, including use of haul roads. Silt-laden run off, spillage of chemicals or oils and air borne dust emissions.	<ul style="list-style-type: none"> Prior to construction develop and implement a Dust Management Plan (DMP), which may include measures to control other emissions, approved by the Local Authority. The level of detail will depend on the risk and will include as a minimum the 'highly recommended' measures within the IAQM guidance. The desirable measures will be included as appropriate for the Site. The DMP may include, as appropriate/necessary, 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-site or offsite, and the action taken to resolve the situation in the logbook; Hold regular liaison meetings with other high-risk construction sites within 500m of the Site (if applicable), 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; 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; 	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration

ID	Primary Topic (primary driver for mitigation)	Secondary Topic (secondary drivers for mitigation)	ES Document Source	Effect	Mitigation Measures (including any monitoring required)	Embedded or Additional Mitigation?	Phase (Construction, Operation or Decommissioning)	Responsibility (e.g. Applicant, Contractor)	Securing Mechanism
					<ul style="list-style-type: none"> • 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; and • Agree, where necessary/appropriate, dust deposition, dust flux, or real-time PM₁₀ continuous monitoring locations with the Local Authority. Where practicable commence baseline monitoring at least three months before work commences on-site. 				
GG-01	Glint and Glare	Landscape and Visual	Chapter 16: Other Environmental Topics [EN010143/APP/6.1]	Solar reflections	Careful siting of the Scheme in the landscape with offsets from existing residential areas, vegetation patterns and road networks.	Embedded	Operation	Applicant	Requirement 5. Detailed Design for Approval Requirement 6. LEMP Requirement 18. Decommissioning and Restoration
GG-02	Glint and Glare	Landscape and Visual	Chapter 16: Other Environmental Topics [EN010143/APP/6.1]	Solar reflections	The rows of solar PV panels will be oriented in a north to south direction and rotate east-west along a single axis to maximise solar gain throughout the day and during the year (i.e., they will rotate east to west to track the movement of the sun) they will also have a maximum tracking angle of 60 degrees and the axis tilt will vary throughout the site depending on the lay of the land. This type of panel avoids the angles of incidence with the sun that most likely cause glint and glare.	Embedded	Operation	Applicant	Requirement 5. Detailed Design for Approval Requirement 6. LEMP Requirement 18. DEMP
GC-01	Ground Conditions	Human Health	Chapter 16: Other Environmental Topics [EN010143/APP/6.1]	The discovery of ground contamination during groundworks. Levelling of the Site including the possible introduction of new fill materials.	<p>The below pre-commencement activities are to be undertaken post-consent prior to commencement:</p> <ul style="list-style-type: none"> • Detailed Unexploded Ordnance (UXO) Assessment • Limited intrusive Site Investigation and Generic Quantitative Risk Assessment (GQRA) • Coal Mining Report • Utilities Mapping (gas pipelines) • Health and Safety Risk Assessment • Geotechnical Site Investigation <p>The results of these assessments and reports should be reviewed prior to construction or decommissioning</p>	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration

ID	Primary Topic (primary driver for mitigation)	Secondary Topic (secondary drivers for mitigation)	ES Document Source	Effect	Mitigation Measures (including any monitoring required)	Embedded or Additional Mitigation?	Phase (Construction, Operation or Decommissioning)	Responsibility (e.g. Applicant, Contractor)	Securing Mechanism
GC-02	Ground Conditions	-	Chapter 16: Other Environmental Topics [EN010143/APP/6.1]	Potential for risks to human health associated with waste generation, land contamination, airborne contamination and groundwater contamination. The discovery of ground contamination during groundworks. Levelling of the Site including the possible introduction of new fill materials.	Good practice measures will be undertaken during construction and decommissioning, and will be written into the environmental management plan. The proposed works will be undertaken in compliance with Construction (Design and Management) Regulations 2015 (CDM).	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
MA D-01	Major Accidents and Disasters	Human Health	Chapter 16: Other Environmental Topics [EN010143/APP/6.1]	Utilities failure (gas, electricity, water, sewage, oil, communications)	All works will be undertaken in accordance with relevant Health and Safety legislation and guidance. Details of fire, police, emergency services and hospitals will be publicised and included in the site induction. The relevant risk assessments for safety during construction will be required and produced by the contractor prior to construction, which will be implemented to minimise the risk of accidents and disasters on site.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
MA D-02	Major Accidents and Disasters	Ecology Arboriculture Soils and Agricultural Land	Chapter 16: Other Environmental Topics [EN010143/APP/6.1]	Plant or Animal Disease	A Biosecurity Plan will be provided post consent. This will provide measures to prevent the spread of plant or animal diseases and the transfer of injurious weed species and invasive species. Measures are likely to include appropriate cleaning and/or disinfection of machinery and equipment in areas considered to be at high risk – see also Ecology, Arboriculture and Soils and Agricultural Land.	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 6. LEMP Requirement 11. CEMP Requirement 15. SMP Requirement 18. Decommissioning and Restoration

ID	Primary Topic (primary driver for mitigation)	Secondary Topic (secondary drivers for mitigation)	ES Document Source	Effect	Mitigation Measures (including any monitoring required)	Embedded or Additional Mitigation?	Phase (Construction, Operation or Decommissioning)	Responsibility (e.g. Applicant, Contractor)	Securing Mechanism
TT RU-01	Telecommunications, Television Reception and Utilities	Ground Conditions	Chapter 16: Other Environmental Topics [EN010143/APP/6.1]	Potential to affect existing utility infrastructure above and below ground as a result of excavation and engineering operations.	<p>Precautionary measures will be included as part of the embedded mitigation for the Scheme, which will include:</p> <ul style="list-style-type: none"> Locating the Scheme outside of utilities protected zones; The use of ground penetrating radar / CAT and Genny before excavation to identify any unknown utilities; Consultation and agreement of construction/demobilisation methods will be undertaken prior to works commencing (covered by the protective provisions included in the DCO); and Infrastructure that crosses the Scheme will be mapped and avoided through the design. 	Embedded	Construction	Applicant Contractor	Requirement 11. CEMP
TT RU-02	Telecommunications, Television Reception and Utilities	Ground Conditions	Chapter 16: Other Environmental Topics [EN010143/APP/6.1]	Potential to affect existing utility infrastructure above and below ground as a result of excavation and engineering operations.	<p>Measures in relation to safe working beneath overhead lines will be in place at all stages of the Scheme.</p> <p>Similarly, measures in relation to safe working near buried utilities, particularly gas pipelines, will be in place at all stages of the Scheme.</p> <p>The draft DCO [EN010143/APP/3.1] includes protective provisions for the protection of electronic communication code networks, and engagement with relevant statutory undertakers will continue in detailed design.</p>	Additional	Construction	Applicant Contractor	Requirement 11. CEMP
MW -01	Materials and Waste	-	Chapter 16: Other Environmental Topics [EN010143/APP/6.1]	Disposal of waste. Potential to impact on sensitive receptors (humans, wildlife and controlled waters) if not stored and managed appropriately.	<p>The Scheme will aim to prioritise waste prevention, followed by preparing for reuse, recycling and recovery and lastly disposal to landfill as per the waste hierarchy.</p> <p>All management of waste will be in accordance with the relevant regulations and waste will be transported by licensed waste hauliers to waste management sites which hold the necessary regulatory authorisation and/or permits for those wastes consigned to them.</p>	Embedded	Construction Operation Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 12. OEMP Requirement 18. Decommissioning and Restoration
MW -02	Materials and Waste	Air Quality	Chapter 16: Other Environmental Topics [EN010143/APP/6.1]	Disposal of waste. Potential to impact on sensitive receptors (humans, wildlife and controlled waters) if not stored and managed appropriately.	<p>The construction of the Scheme will be subject to measures and procedures outlined within the Site Waste Management Plan (SWMP) which will include:</p> <ul style="list-style-type: none"> The waste streams that will be generated; How the waste hierarchy will be applied to these wastes; Good practice measures for managing waste; and Roles and responsibilities for waste management. <p>All management of waste will be in accordance with the relevant regulations and waste will be transported by licensed</p>	Embedded	Construction Operation Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 12. OEMP Requirement 18. Decommissioning and Restoration

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					waste hauliers to waste management sites which hold the necessary regulatory authorisation and/or permits for those wastes consigned to them.				
MW-03	Materials and Waste	-	Chapter 16: Other Environmental Topics [EN010143/APP/6.1]	Disposal of waste. Potential to impact on sensitive receptors (humans, wildlife and controlled waters) if not stored and managed appropriately.	<p>The following approaches will be implemented, where practicable, to minimise the quantity of waste arising and requiring disposal:</p> <ul style="list-style-type: none"> • Agreements with material suppliers to reduce the amount of packaging or to participate in a packaging take-back scheme; • Implementation of a 'just-in-time' material delivery system where practicable to avoid materials being stockpiled, which can increase the risk of damage and subsequent disposal as waste; • Attention to material quantity requirements to avoid over-ordering and the generation of waste materials due to surplus; • Reuse of materials on-site wherever feasible, e.g. reuse of excavated soil for landscaping, recycling of demolition materials into aggregates; • Off-site prefabrication, where practical, including the use of prefabricated structural elements; • Segregation of waste at source, where practical, to facilitate a high proportion and high-quality recycling; and • Off-site reuse, recycling and recovery of materials and waste where reuse on-site is not practical, e.g. Through use of an off-site waste segregation or treatment facility or for direct reuse or reprocessing off-site. 	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration
MW-04	Materials and Waste	Air Quality	Chapter 16: Other Environmental Topics [EN010143/APP/6.1]	Disposal of waste. Potential to impact on sensitive receptors (humans, wildlife and controlled waters) if not stored and managed appropriately.	<p>The Principal Contractor will implement the following waste management measures, where practicable, to minimise the likelihood of any localised impacts from pollution or nuisance from waste on the surrounding environment:</p> <ul style="list-style-type: none"> • Damping down of surfaces during spells of dry weather and brushing/water spraying of heavily used hard surfaces/access points across the site as required; • Burning of waste or unwanted materials will not be permitted on-site; 	Embedded	Construction Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 18. Decommissioning and Restoration

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					<ul style="list-style-type: none"> All hazardous materials including fuels, chemicals, cleaning agents, solvents and solvent containing products to be properly sealed in containers at the end of each day prior to storage in appropriately protected and bunded storage areas; All demolition and construction workers will be required to use appropriate personal protective equipment whilst performing activities on-site; Any waste effluent will be tested and, where necessary, disposed of at a correctly licensed facility by a licensed specialist contractor/s; and Materials requiring removal from the site will be transported using licensed carriers and records will be kept detailing the types and quantities of waste moved, and the destinations of this waste, in accordance with the relevant regulations. 				
SA-01	Soils and Agriculture	Socio-economics and Land use	Chapter 15: Soils and Agriculture [EN010143/APP/6.1]	The Scheme has the potential to impact agricultural land during Construction.	Prior to the start of construction, a Soil Management Plan (SMP) will be prepared (secured through DCO Requirement) following the guidance in the Defra (2009) Construction Code of Practice for the Sustainable Use of Soils on Construction Sites and other relevant documents such as The Institute of Quarrying's Good Practice Guide for Handling Soils in Mineral Workings and the British Society of Soil Science Guidance Note – Benefiting from Soil Management in Development and Construction. This will be based upon the Framework Soil Management Plan [EN010143/APP/7.10] .	Embedded	Construction Operation Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 15. SMP
SA-02	Soils and Agriculture	Landscape and Visual	Chapter 15: Soils and Agriculture [EN010143/APP/6.1]	The Scheme has the potential to impact soil resources in terms of disturbance and damage.	All land would be fully reinstated as near as practically possible to its former condition. Topsoil would be prepared and, where required (for example for the establishment of permanent pasture in the Solar PV Site), sown using an appropriate seed mix.	Embedded	Decommissioning	Applicant Contractor	Requirement 18. Decommissioning and Restoration
SA-03	Soils and Agriculture	-	Chapter 15: Soils and Agriculture [EN010143/APP/6.1]	The Scheme has the potential to impact agricultural land during Construction. Improvements in soil quality may also arise.	Wherever practicable the Grid Connection and Interconnecting Cables will be routed along roads and in roadside verges to avoid impacts to agricultural land. For the cable routes topsoil and subsoil from excavation/working areas will be stripped and stored separately within designated storage areas. Soils of different types will be stored separately. Clear records of the stockpiles (including annotated plans) will be maintained.	Embedded	Construction Operation Decommissioning	Applicant Contractor	Requirement 11. CEMP Requirement 12. OEMP Requirement 15. SMP

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				The Scheme has the potential to result in a loss of soil resources, including related biosecurity effects.	<p>Where topsoil is stripped to form access roads and foundations / hardstanding areas within the Solar PV Site, it will be stored within designated storage areas as close as reasonably practicable to the area of origin and seeded to reduce erosion risk. Soils of different types will be stored separately. Clear records of the stockpiles (including annotated plans) will be maintained.</p> <p>Cable routing and access tracks will be directed to the edge of fields, in field boundaries, or through less productive areas of individual fields wherever practicable, taking into account other environmental, socio-economic and engineering constraints.</p> <p>UK Government's website advertising current occurrences and imposed restrictions with regards to animal and plant diseases will be checked both pre-construction and at regular intervals throughout construction. The Contractor will also subscribe to the Animal Disease Alert Subscription Service.</p> <p>Soil stockpiles anticipated to be in place for longer than six months will be seeded with appropriate seed mix. Along with protecting the soil against erosion and nutrient loss, this will also help prevent colonisation of the stockpile by nuisance weeds (such as Blackgrass (<i>Alopecurus myosuroides</i>) which landowners have reported as being present within areas of the Solar PV Site) that could spread seed onto adjacent land. Stockpiles will be monitored for the presence of undesirable weed species and the stockpile vegetation cover will be managed as appropriate.</p> <p>Where Grid Connection and Interconnecting Cables are laid in agricultural land, they will be installed below typical plough depth at a minimum depth of cover at 0.9m, so as not to interfere with normal agricultural operations. Within the Solar PV Site installation depth/ depth of cover of interconnecting and on-site cables may be shallower as no ploughing will occur, but a minimum depth of 0.9 m will be in place for the Grid Connection Cables</p>			Requirement 18. Decommissioning and Restoration	
SA-04	Soils and Agriculture	Ecology Landscape	Chapter 15: Soils and Agriculture [EN010143/APP/6.1]	The Scheme has the potential to impact the use of land within the site and impact the species that use the land.	Land within the Solar PV Site and Ecology Mitigation Area will be managed and protected through the application of environmental good practice measures set out in documents such as the Operational Environmental Management Plan (OEMP) and Landscape and Environmental Management Plan (LEMP), including applicable measures described within this section and the CEMP. Framework versions of OEMP [EN010143/APP/7.8] and the CEMP [EN010143/APP/7.7] are	Additional	Operation	Applicant	Requirement 6. LEMP Requirement 12. OEMP

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					<p>included as part of the DCO Application. Works plans/ method statements (or similar) for maintenance works will also be expected to contain environmental management measures, where applicable.</p> <p>During operation the majority of the Ecology Mitigation Area (Goose Mitigation Zone) will continue to be within arable rotation, whilst the remaining land (Golden Plover Mitigation Zone) will be managed as grassland.</p> <p>Should grazing be undertaken (within the Solar PV Site and/or the Golden Plover Mitigation Zone), it would be managed to ensure that potential negative impacts of grazing such as over-grazing, or damage to soil structure do not occur. For example, the stocking density of the flock would be suitable for the area being grazed, rotation grazing would be followed, and the flock would be moved out of areas if the land is too wet. These measures would be set out in the detailed OEMP and secured and implemented via DCO Requirement</p>				
TA-01	Transport and Access	Socio-economics Human Health Air Quality Noise and Vibration	Chapter 13: Transport and Access	Increased traffic flows, including HGVs on the roads leading to the Site. Severance and intimidation associated with increased construction traffic and abnormal loads.	<p>The following mitigation measures related to Transport and Access:</p> <ul style="list-style-type: none"> • Suitable access points will be identified to enable movement of vehicles into sites where appropriate; • All access points that require the creation of a junction bellmouth would be designed based on the relevant standard from DMRB CD 123 Geometric Design of at Grade Priority and Signal-Controlled Junctions and in consultation with the local highway authority, thereby negating any potential safety impact associated with construction activity; • Minimum car parking levels will be met at each of the Construction Compounds as set out in the Transport Assessment (TA) (Appendix 13-4, ES Volume 2 [EN010143/APP/6.2]); • Swept path analysis for AILs, HGVs, and tractor/trailers has been conducted to ensure there is knowledge of where routing is appropriate; • Pre and post construction road condition surveys will be undertaken at identified locations in coordination with the Local Highway Authority • AILs will be routed in accordance with the findings of the routing review for large vehicles as set out in the 	Embedded	Construction Operation Decommissioning	Applicant Contractor	Requirement 5. Detailed Design Approval Requirement 11. CEMP Requirement 12. OEMP Requirement 13. CTMP Requirement 18. Decommissioning and Restoration

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					<p>Framework CTMP (Appendix 13-5, ES Volume 2 [EN010143/APP/6.2]). There are expected to be up to 10 movements associated with the delivery of transformers to the two Grid Connection Substations;</p> <ul style="list-style-type: none"> • Implementing local off-site highway improvements (e.g., verge clearance, hedge cutting and/or carriageway widening) where required to support HGV movements; • Utilising internal routes between Solar PV Areas to avoid using the existing road network where practicable; • Managing the areas where traffic may have to use the road network, by providing adequate visibility splays between construction vehicles and other road users, implementing traffic management (e.g., advanced signage to advise other users of the works, as well as manned controls at each crossing point (marshals/ banksmen)), with a default priority that construction traffic will give-way to other users. This will also apply where construction traffic and PRow may intersect; • Positioning of suitably qualified banksmen at construction compound access points to allow all vehicle arrivals and departures to be safely controlled during the construction period; • Ensure temporary traffic signals are implemented where necessary across the road network to reflect demand; • Restricting HGV movements to certain routes as follows: <ul style="list-style-type: none"> - Compound A – Along the A163 to the A614; - Compound B – Along the A163 to the A614; - Compound D – Along the A63 to the A19; and - Compound E – along the A645 to the M62. - Compound C is not intended to have HGVs travelling to this compound. • Restrictions on HGV and tractor-trailer movements on roads through Howden and north from Howden along the B1228 Station Road; • To minimise the number of HGV movements between 07:00 and 09:00 and 16:00 and 20:00 (i.e., limiting deliveries to between the hours of 09:00 and 16:00), to 				

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					<p>avoid increasing traffic levels on the surrounding highway network during the traditional weekday peak hours;</p> <ul style="list-style-type: none"> Implementing a Delivery Management System to control the bookings of HGV deliveries from the start of the construction period. This will be used to regulate the arrival times of HGVs via timed delivery slots, as well as to monitor compliance of HGV routing. In addition, adequate space will be made available within the construction compounds to ensure no queuing back onto the surrounding road network occurs; Implementing a monitoring system to record the route of all HGVs travelling to and from the Site, to record any non-compliance with the agreed routing strategy/delivery hours and to communicate any issues to the relevant suppliers to ensure the correct routes and times are followed; Construction staff will be directed to take the most direct route to the Site using 'higher' order roads, such as A and B classified roads or the Strategic Road Network (SRN); Encouraging local construction staff to car share to reduce single occupancy car trips. This will promote the benefits of car sharing, such as reduced fuel costs. A car share system will be implemented to match potential sharers and to help staff identify any colleagues who could potentially be collected along their route to/from the Site; Implementing a shuttlebus service to transfer non-local staff to/from local worker accommodation (assumed average occupancy of 16 workers per service), to reduce vehicle trips on the surrounding highway network. Minibuses will also be used to transport staff around the Site, by making use of the internal routes wherever possible to travel between the Solar PV Site, the Grid Connection Corridor and the Compounds; Providing limited (but sufficient) on-site car parking to accommodate the expected parking demand of construction staff for the Scheme. Staff movements will be managed through the implementation of limited car parking, car sharing, staff routing, specified staff arrival and departure times, parking strategy and the minibus services; A specialised haulage service will be employed to allow AILs to transport components with the necessary escort, 				

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					<p>permits and traffic management, with the contractor consulting the relevant highways authorities to ensure the correct permits are obtained. The police will also be given advanced notification under the Road Vehicle Authorisation of Special Types Order 2003;</p> <ul style="list-style-type: none"> • PRow within the Solar PV Site will have maintained access within the Solar PV Site throughout construction with minor diversions, separating PRow from working areas by installing perimeter fencing as the first phase of construction. The Interconnecting Cables or and Grid Connection Cables would only be impacted during the short-term trenching and restoration operations, and will be managed with traffic management measures where necessary. Routes may be temporarily slightly altered, e.g., moving from one side of a road to the other. Under a worst-case scenario, if any PRow require diversion, these will be short-term in duration; • To mitigate impacts for cyclists and pedestrians a communications strategy including regular meetings with contractors to review and address any issues will be implemented; and • A Framework CTMP (Appendix 13-5, ES Volume 2 [EN010143/APP/6.2]) has been produced in accordance with this DCO Application and will be developed further by the appointed contractor in consultation with Local Planning Authorities, National Highways (as necessary), North Yorkshire and Humberside Police and other stakeholders following award of consent. The structure of these documents will expand upon the information included in the Framework CTMP; <p>See Socio-economics and Land Use for mitigation measures in relation to PRow.</p>				
TA-02	Transport and Access	Socio-economics and Land Use Human Health	Chapter 13: Transport and Access	<p>The Scheme has the potential to impact the local road network and the SRN during operation.</p> <p>The Scheme has the potential to impact PRow during operation.</p>	<p>During the operational period, the following embedded design mitigation measures are proposed:</p> <ul style="list-style-type: none"> • Operational staff will be directed to take the most direct route to the Site using 'higher' order roads, such as A and B classified roads or the SRN; • HGV movements are anticipated to be low across the 40-year operational period, but when required HGV movements will be restricted to certain times of day 	Embedded	Operation	Applicant	<p>Requirement 12. OEMP</p> <p>Requirement 13. CTMP</p> <p>Requirement 17. PRow</p>

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					<p>(between 09:00 and 16:00) and restricted to the strategic road network (A63, A163, and A645);</p> <ul style="list-style-type: none"> • If AILs are needed during the operational period, they will be in accordance with the findings of the routing review for large vehicles which is discussed further in the Framework CTMP (Appendix 13-5, ES Volume 2 [EN010143/APP/6.2]). • A specialised haulage service will be employed to allow AILs to transport components with the necessary escort, permits and traffic management, with the contractor consulting the relevant highways authorities to ensure the correct permits are obtained. The police will also be given advanced notification under the Road Vehicle Authorisation of Special Types Order 2003 (Ref. 13-20); • Ensuring operational staff park within the Solar PV Areas during operation as to limit impact on the local road network; and • Providing sufficient protection/separation between existing PRow, permissive paths and solar PV infrastructure where necessary, using perimeter fencing installed at a minimum distance of 20m either side of the centre of the PRow where solar infrastructure lies to both sides, or 15m if solar infrastructure is to one side only 				