

# Gate Burton Energy Park EN010131

Mitigation Schedule  
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Prepared for:

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# Mitigation Schedule

## 1.1 Introduction

- 1.1.1 This document sets out the environmental mitigation measures to be adopted during the construction, operation and maintenance, and decommissioning phases of Gate Burton Energy Park (hereafter referred to as the 'Scheme').
- 1.1.2 Table 1 lists the environmental mitigation measures to be adopted and identifies where that mitigation is secured. Figure 1 outlines where each mitigation or management plan is secured in Schedule 2 Requirements of the Development Consent Order (DCO) **[EN010131/APP/6.1]**.

Table 1 Gate Burton Mitigation Schedule

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 of the ES [EN010131/APP/3.1]	Emissions from construction traffic and equipment.	<b>Good Practice Measures for Climate Change</b> Standards of good practice for climate change will be followed to minimise greenhouse gas emissions from activities and vehicles.	Embedded	Construction Operation Decommissioning	Applicant	Requirement 12. CEMP Requirement 13. OEMP Requirement 19. Decommissioning and restoration
CC-02	Climate Change	Major Accidents and Disasters	Chapter 6: Climate Change of the ES [EN010131/APP/3.1]	Protecting site personnel from extreme weather	<b>Health and Safety</b> A health and safety plan will be developed to ensure site personnel are protected from extreme weather events resulting from climate change.	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration
CC-03	Climate Change	Water Environment	Chapter 6: Climate Change of the ES [EN010131/APP/3.1]	Increased flood risk on-site due to climate change	<b>Managing Flood Risk</b> Design minimising the duration of topsoil and construction material storage within the 1 in 100-year floodplain extent (Flood Zone 3). At least one designated Flood Warden will be appointed.	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration
CC-04	Climate Change	Air Quality Human Health	Chapter 6: Climate Change of the ES [EN010131/APP/3.1]	Emissions during operation.	<b>Operational Maintenance</b> Regular, planned maintenance of the Scheme will be undertaken during operation to optimise efficiency of the Scheme infrastructure.	Embedded	Operation	Applicant	Requirement 13. OEMP
CH-01	Cultural Heritage		Chapter 7: Cultural Heritage of the ES [EN010131/APP/3.1]	Changes to historical setting and damage to known buried archaeology	<b>Avoidance measures</b> <ul style="list-style-type: none"> <li>Designing the Site boundary to exclude all designated heritage assets from the Site in order to avoid physical impacts;</li> <li>Retention of all non-designated historic buildings within the Site with no physical impacts to those buildings proposed;</li> <li>The siting of the BESS and on-site substation in an area of the Site with reduced visibility limits visual intrusion into the setting of heritage assets;</li> <li>The use of a buried cable for the Grid Connection Corridor is proposed in order to remove potential impacts on the setting of heritage assets caused through the introduction of an overground cable; and</li> <li>The routing and siting for the Grid Connection Corridor was influenced by the identification of potentially significant below ground archaeological remains along the route corridor, with the route selected to avoid significant archaeological remains as far as practicable.</li> </ul>	Embedded	Construction Operation	Applicant	Requirement 5. Detailed Design Approval
CH-02	Cultural Heritage		Chapter 7: Cultural Heritage of the ES [EN010131/APP/3.1]	Damage to known buried archaeology	Where it has not been possible to re-route the Grid Connection Corridor around archaeological remains, the use of Horizontal Directional Drilling (HDD), as opposed to open cut trenching, has been proposed in some locations and these are marked as 'Avoidance Areas' in <b>ES Volume 2: Figure 2-5 [EN010131/APP/3.2]</b> .	Embedded	Construction	Applicant	Requirement 12. CEMP

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CH-03	Cultural Heritage		Chapter 7: Cultural Heritage of the ES [EN010131/APP/3.1]	Damage to known buried archaeology	Field 16 of the Solar and Energy Storage Park: embedded mitigation is provided in the form of removal of Solar PV Panels from the Scheme design in this field, enabling preservation in-situ of these archaeological remains. During construction and operation, this panel free area will not be used for construction or operation-related activities. The boundary of the defined mitigation area will be fenced off from the Scheme.	Embedded	Construction Operation	Applicant	Requirement 5. Detailed Design Approval Requirement 11. Archaeology Requirement 12. CEMP Requirement 13. OEMP
CH-04	Cultural Heritage		Chapter 7: Cultural Heritage of the ES [EN010131/APP/3.1]	Damage to known buried archaeology	Field 45 of the Solar and Energy Storage Park: embedded mitigation is provided in the form of removal of Solar PV Panels from the Scheme design in this field enabling preservation in-situ of these archaeological remains. During construction and operation, this panel free area will not be used for construction or operation-related activities except for a route of access that runs north-south along the eastern boundary of the field. The boundary of the field will be fenced off from the Scheme, including along the access route.	Embedded	Construction Operation	Applicant	Requirement 5. Detailed Design Approval Requirement 11. Archaeology Requirement 12. CEMP Requirement 13. OEMP
CH-05	Cultural Heritage		Chapter 7: Cultural Heritage of the ES [EN010131/APP/3.1]	Changes to historical setting	<p><b>Exclusion Zones:</b></p> <ul style="list-style-type: none"> <li>The use of panel free buffer zones within the settings of heritage assets, including a 100m buffer area to the east of the non-designated Gate Burton park and a panel exclusion zone between the park boundary and Burton Wood. During construction this panel free area will not be used for any construction-related activities or laydown areas.</li> <li>A buffer area around the non-designated Clay Farm and Siding Farm. During construction these panel-free areas will not be used for any construction-related activities or laydown areas;</li> <li>A buffer area in the vicinity of Heynings Priory scheduled monument, to retain its connection with a probably associated building identified in the geophysical survey in Field 45 and to retain its landscaped setting within a 'bowl' of lower-lying boggy ground. During construction this panel free area will not be used for construction-related activities except for a route of access that runs north-south along the eastern boundary of the field.</li> </ul>	Embedded	Construction	Applicant	Requirement 12. CEMP Requirement 5. Detailed Design Approval Requirement 11. Archaeology
CH-06	Cultural Heritage		Chapter 7: Cultural Heritage of the ES [EN010131/APP/3.1]	Changes to historical setting	<p><b>Screening</b></p> <ul style="list-style-type: none"> <li>Appropriate and sensitive screening to minimise the visual intrusion of the Scheme, while avoiding, as far as practicable, obscuring or intruding upon important views and relationships between heritage assets or significantly altering historic design intention.</li> <li>Any mitigation planting has taken into consideration the historic landscape character as appropriate, and most of the proposed new boundary planting within the Site follows boundaries shown on the relevant Enclosure and tithe maps, and historic OS maps. Planting as mitigation to screen views has been limited</li> </ul>	Embedded	Construction Operation	Applicant	Requirement 7. LEMP Requirement 12. CEMP Requirement 13. OEMP

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					<p>to avoid the creation of new impacts; rather, it has been used to enhance existing screening and/ or futureproof against the loss of existing planting, as appropriate.</p> <ul style="list-style-type: none"> <li>The hedgerow that is required to be removed for visibility splays during construction will either be cut down to the base or where necessary replanted for the operational phase.</li> </ul>				
CH-07	Cultural Heritage		Chapter 7: Cultural Heritage of the ES [EN010131/APP/3.1]	Changes to historical setting	<p>Where it is not reasonably practicable to apply design mitigation to the management of the archaeological resource, resulting in archaeological assets to experience significant adverse effects, additional mitigation measures will be applied.</p> <p>Additional mitigation measures comprise excavation and recording (strip, map and record) of archaeological remains in advance of construction activities. The sites to which excavation and recording relate are identified within the Archaeological Mitigation Strategy [ENE010131/APP/7.6].</p>	Additional	Construction	Applicant	Requirement 11. Archaeology
CH-08	Cultural Heritage		Chapter 7: Cultural Heritage of the ES [EN010131/APP/3.1]	Changes to historical setting at night	<p><b>Lighting</b></p> <p>Avoidance measures included in the design of the operational scheme in relation to cultural heritage include the use of infrared sensors on task-specific maintenance and operational lighting rather than permanent lighting of the Scheme.</p>	Embedded	Operation	Applicant	Requirement 13. OEMP
EC-01	Ecology	Landscape	Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits	<p><b>Design Principles</b></p> <p>The Scheme has been designed so that impacts upon habitats (such as designated sites, mature trees and woodland) within and surrounding the Order limited, are avoided, or reduced where reasonably practicable. Following decommissioning the Order limited will be returned to landowners, in the condition as of the end of operation, including established habitats.</p>	Embedded	Construction Operation Decommissioning	Applicant	Requirement 5. Detailed Design Approval
EC-02	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To minimise the loss of existing habitats and minimise impact on biodiversity within the Order limits.	<p><b>Non-statutory sites</b></p> <ul style="list-style-type: none"> <li>Construction Exclusion Zones: Security fencing will be implemented early in the construction phase. This fence will restrict construction activity in the Construction Exclusion Zone and will protect the Local Wildlife Sites (LWS's) within the vicinity of the Order limits. Security fencing will not be placed within the ancient woodland buffer zone. Security fencing can be placed within the buffer zone of non-ancient woodland and hedgerow areas except where this would encroach within the RPAs of veteran trees. In this instance, fencing will be micro-sited to avoid veteran or protected tree RPAs.</li> <li>Grid Connection Corridor Crossing Points: The construction of the Grid Connection Corridor, where it crosses Cow Pasture Lane Drains LWS, will be undertaken using HDD methods to lay cabling, therefore avoiding impacts to the drain and hedge,</li> </ul>	Embedded	Construction Decommissioning	Applicant	Requirement 5. Detailed Design Approval Requirement 12. CEMP Requirement 19. Decommissioning and restoration

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					<p>with setbacks of at least 10m from the centreline of the drain, which is considered sufficient to mitigate for potential hazards such as chemical and soils spills into watercourse and avoid potential direct impacts to the LWS and riparian habitats. No other LWS's will be crossed by the Grid Connection Corridor.</p> <ul style="list-style-type: none"> <li>Grid Connection Corridor Access: Access for construction of the Grid Connection Corridor will utilise an existing access track that runs alongside Cow Pasture Lane Drains LWS. However, where there is a need to cross the LWS, this will be via a bailey bridge, rather than culvert to minimise negative impacts.</li> <li>Construction Management: Construction compounds will be setback from this LWS with a minimum 10m from the centre line of the watercourse. Furthermore, measures to ensure incursion into this LWS does not occur will be put in place, e.g. security fencing, which will be implemented at an early stage.</li> </ul>				
EC-03	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To avoid and minimise impacts on biodiversity associated with construction activities.	<p><b>Good Practice for Ecology</b> The Scheme will comply with industry good practice and environmental protection legislation.</p>	Embedded	Construction Operation Decommissioning	Applicant	Requirement 12. CEMP Requirement 13. OEMP Requirement 19. Decommissioning and restoration
EC-04	Ecology	Human Health and Water Environment	Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<p><b>Drainage Strategy</b> Surface water management set out in the Outline Drainage Strategy will reduce the likelihood and severity of potential pollution incidents and flooding affecting watercourses and the local ditch network to reduce or eliminate adverse effects for aquatic and riparian species and habitats.</p>	Embedded	Construction Operation Decommissioning	Applicant	Requirement 10. Drainage Strategy
EC-05	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<p><b>Lighting</b> Motion detection security lighting will be used to avoid permanent lighting. It will conform to best practice guidelines with respect to minimising light spill into habitats.</p>	Embedded	Construction Operation Decommissioning	Applicant	Requirement 12. CEMP Requirement 13. OEMP Requirement 19. Decommissioning and restoration
EC-06	Ecology	Air Quality Noise and Vibration Water Environment Human Health	Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To avoid and minimise impacts on biodiversity associated with construction activities.	<p><b>Standard Management Measures</b> Measures to prevent pollution incidents, minimise effects on ecology from noise and vibration, prevent and minimise dust creation and air pollution will be adopted. Precautionary working method statements would be produced controlled and implemented.</p>	Embedded	Construction Operation Decommissioning	Applicant	Requirement 12. CEMP Requirement 13. OEMP Requirement 19. Decommissioning and restoration
EC-07	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To minimise the loss of existing habitats and minimise impact on biodiversity within the Order limits.	<p><b>Retained Notable Habitats</b></p> <ul style="list-style-type: none"> <li>Construction Avoidance: The Scheme design retains all woodland habitats, a small area (0.58ha) of acid grassland within the Grid Connection Corridor (at Cottam Power Station), all marshy grassland and all standing water (with swamp habitat (reed) fringes).</li> </ul>	Embedded	Construction Decommissioning	Applicant	Requirement 5. Detailed Design Approval Requirement 12. CEMP Requirement 19. Decommissioning and restoration



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					<ul style="list-style-type: none"> <li>Construction Exclusion Zone: A 15m buffer will be implemented from woodland habitats and no construction activities will be permitted. This buffer has been incorporated into the Scheme design to protect trees and woodland. Other retained trees outside of woodland habitats and adjacent to construction working areas will be protected by clearly defined root protection areas, concordant with the requirements for each individual tree, to prevent damage/compaction of roots by plant and other machinery and prevent direct or indirect impacts to trees. Security fencing will be implemented early in the construction phase to prevent incursion into the Construction Exclusion Zones protecting retained habitats.</li> </ul>				
EC-08	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<p><b>Habitats - Coastal and Floodplain Grazing Marsh</b></p> <ul style="list-style-type: none"> <li>Construction Exclusion Zone: Security fencing will be implemented early in the construction phase. This fence will restrict construction activity in the Construction Exclusion Zone and will protect Coastal and Floodplain Grazing Marsh within the Grid Connection Corridor. Security fencing will be implemented early in the construction phase to prevent incursion into the Coastal and Floodplain Grazing Marsh.</li> <li>Grid Connection Corridor Crossing: The crossing of the River Trent will be undertaken using HDD methods to lay cabling, with a sufficient setback and Avoidance Area's in to prevent impacts to Coastal and Floodplain Grazing Marsh either side of the River Trent. As such, launch and exit pits will be located outside of this habitat, which is considered sufficient to mitigate for potential hazards such as chemical and soils spills into watercourses and avoid potential direct impacts to the River Trent, Coastal and Floodplain Grazing Marsh and protected species using them (such as Otter, which use the river for commuting and foraging).</li> </ul>	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration
EC-09	Ecology	Water Environment	Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<p><b>Habitats – Running Water</b></p> <ul style="list-style-type: none"> <li>Construction Exclusion Zone: Riparian habitat along the margins of the banks of watercourses will be outside of 10m undeveloped buffer between watercourses and the developable area of the Scheme. These buffers have been incorporated into the Scheme design to protect watercourses. Security fencing around the Scheme will be implemented early in the construction to prevent incursion into Construction Exclusion Zones protecting running water.</li> <li>Grid Connection Corridor Crossing: The construction of the Grid Connection Corridor across avoidance areas will be undertaken using HDD methods to lay cabling. This will avoid impacts to watercourses,</li> </ul>	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration

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					<p>including the Coastal and Floodplain Grazing Marsh either side of the River Trent, with launch and exit pits located outside of this habitat. This method is considered sufficient to mitigate for potential hazards such as chemical and soils spills into watercourses and avoid potential direct impacts to the River Trent, Coastal and Floodplain Grazing Marsh and Otter, which use the river for commuting and foraging.</p> <ul style="list-style-type: none"> <li>Construction Crossing Points: Within the Solar and Energy Storage Park, the use of existing watercourse crossing points will be used for the majority of construction access, where practicable.</li> </ul>				
EC-10	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<p><b>Hedgerow</b> A buffer of at least 5m will be maintained between retained hedgerows without trees and the developable area of the Scheme where no construction activities are permitted. These buffers have been incorporated into the Scheme design to protect hedgerows. Where individual trees are located within hedgerows, the undeveloped buffer will be extended to include provision for the root protection area. Security fencing will be implemented early in the construction phase to prevent incursion into hedgerows.</p>	Embedded	Construction Decommissioning	Applicant	Requirement 5. Detailed Design Approval Requirement 12. CEMP Requirement 19. Decommissioning and restoration Requirement 7. LEMP
EC-11	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<p><b>Aquatic</b> During activities where there are direct impacts to watercourses (e.g. through culverting/open cut crossing) or water bodies the following mitigation is proposed:</p> <ul style="list-style-type: none"> <li>Avoidance of key fish migration timings;</li> <li>Fish rescue and/or translocation during drain-down of watercourses or water bodies, and during the installation of culverts or over-pumping for open trenching through watercourses/ditches; and</li> <li>Consideration must be given to invasive non-native species (INNS) known to be present in water bodies, most notably Nuttall's waterweed, with appropriate biosecurity measures implemented.</li> </ul>	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration
EC-12	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<p><b>Pollution control in or around water</b></p> <ul style="list-style-type: none"> <li>Prevent erosion and runoff by minimising vegetation and soil disturbance. Ensure the implementation of exclusion buffer zones (10m) or as recommended in the Water Chapter) for the full length of watercourses within the construction buffer zone. Include further preventative measures, such as runoff/settlement ponds and/or silt fencing if necessary;</li> <li>Where construction vehicles are required to pass over the water bodies, vehicles/plant must be cleaned away from the water in dedicated vehicle washing areas to prevent potential pollutants entering the surface water system, before crossing over the water body;</li> </ul>	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration

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					<ul style="list-style-type: none"> <li>Control the spread of dust and sediment through fine water spraying of vehicle routes;</li> <li>Regularly service, monitor and inspect on-site plant for leaks to prevent construction spillages and to ensure pollutants do not enter the waterways. Refuel plant and machinery in dedicated refuelling areas, with drip-trays used routinely and spill kits available; and</li> <li>Cover and protect all surface water drainage systems from pollution and sediment input.</li> </ul>				
EC-13	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<b>Terrestrial Invertebrates</b> The Scheme design retains habitats of greater terrestrial invertebrate interest (such as woodland, watercourses, hedgerows), with measures to ensure incursion into these habitats does not occur to be put in place as presented above, e.g. security fencing, which will be implemented at an early stage to protect retained habitats from incursion during construction.	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration Requirement 7. LEMP
EC-14	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<b>Great Crested Newt</b> Construction of the Grid Connection Corridor, within 250 m of a pond supporting Great Crested Newt will predominantly be constructed in low value habitats (arable farmland) for this species and will avoid all habitat within 100 m of this pond. However, semi-improved grassland and scrub habitat (between 100 m and 250 m from the pond) is of potentially greater value to transient (dispersing / commuting) Great Crested Newt and a 0.3 ha area of this habitat will be impacted upon during construction of the Grid Connection Corridor. Works in these areas will be undertaken under Reasonable Avoidance Measures (RAMs) which is found in <b>Framework Construction Environmental Management Plan (CEMP) [EN010131/APP/7.3]</b>	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration Requirement 7. LEMP
EC-15	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<b>Reptiles</b> The Scheme design retains and avoids the majority of habitats of value to reptiles, including woodland, grassland margins, ditches, scrub and hedgerows within the Solar and Energy Storage Park. Vegetation clearance throughout the Order limits and, in particular, where reptiles have been identified will be undertaken in advance of construction and at an appropriate time of year so as to avoid incidental injuring or killing of reptiles, concordant with the requirements for other species, such as nesting birds and Brown Hare. Vegetation manipulation will follow the methods prescribed for Great Crested Newt, above. There will be no need to undertake any relocation of reptiles within the Order limits.	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration Requirement 7. LEMP
EC-16	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To minimise the loss of existing habitats and minimise impact on	<b>Breeding Birds - General</b> Vegetation clearance will avoid the nesting bird period, where practicable i.e., March to August (inclusive). Should any vegetation clearance be required within the nesting bird	Embedded	Construction	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration

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				biodiversity within the Order limits.	period this will be checked, prior to vegetation removal, for the presence of nesting birds, by a suitably qualified ornithologist. If active nests are found, then these will be avoided with appropriate buffer zones put in place and the area monitored until the young birds have fledged and, or the nesting attempt has ceased.				Requirement 7. LEMP
EC-17	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To minimise the loss of existing habitats and minimise impact on biodiversity within the Order limits.	<b>Breeding birds – territories</b> The Scheme design retains and avoids habitats of value to specially protected breeding birds. Habitats where territories were recorded in 2022, including grassland (Quail), woodland (Hobby) and mature trees and buildings (Barn Owl) within the Solar and Energy Storage Park will be retained. Territories of Peregrine were recorded outside of the Order limits within Cottam Power Station (within 200 m of the Grid Connection Corridor) and therefore, Peregrine will remain unaffected by the Scheme as the Scheme design will avoid the loss of any habitat of value to breeding Peregrine. The Scheme design, therefore, ensures that species that are reliant on such habitats are not impacted upon by the Scheme.	Embedded	Construction	Applicant	Requirement 5. Detailed Design Approval
EC-18	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<b>Breeding Birds Black Redstart</b> Pre-commencement surveys will be undertaken to determine the presence of breeding Black Redstart. If present prior to construction commencing, then the Ecological Clerk of Works (ECoW) (experienced ornithologist) will advise as to whether a no disturbance buffer is required to avoid disturbance to this Schedule 1 breeding species.	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 7. LEMP Requirement 19. Decommissioning and restoration
EC-19	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To minimise the loss of existing habitats and minimise impact on biodiversity within the Order limits.	<b>Breeding Birds Skylark</b> Throughout the Order limits, areas of undeveloped land have been included within the Scheme to provide permanent habitat for ground-nesting birds such as Skylark. See <b>Outline LEMP [EN010131/APP/7.10]</b> for enhancement measures in these areas.	Additional	Construction	Applicant	Requirement 7. LEMP
EC-20	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<b>Breeding Birds Pre-commencement Survey</b> Pre-commencement surveys will be undertaken to determine the presence of breeding Schedule 1 birds. If present prior to construction commencing, then the ECoW (experienced ornithologist) will advise as to whether a no disturbance buffer is required to avoid disturbance to Schedule 1 breeding species.	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 7. LEMP Requirement 19. Decommissioning and restoration
EC-21	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To minimise the loss of existing habitats and minimise impact on biodiversity within the Order limits.	<b>Badgers</b> The Scheme can be designed to avoid Badger setts within the Order limits. All setts within the Scheme will have an appropriate exclusion zone of 30m around the sett to prevent disturbance and accidental damage. Pre-construction surveys will be undertaken to support the baseline survey findings. The purpose of these pre-construction surveys is to ensure mitigation during the construction phase is based on the latest protected species	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration Requirement 7. LEMP

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					information. Where there have been any changes to Badger distribution, Natural England licences and mitigation measures will be updated accordingly. Implementation of measures to avoid animals being injured or killed within construction working areas, through excluding them from such areas and preventing them from falling into and becoming trapped in excavations. No excavations will remain open overnight and if excavations are required to be left open, ramps will be provided to allow animals a means of escape.				
EC-22	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To minimise the loss of existing habitats and minimise impact on biodiversity within the Order limits.	<b>Bats</b> The Scheme design retains and avoids habitats of value to bats, including woodland, scrub and hedgerows within the Solar and Energy Storage Park. Whilst the Scheme design retains habitats of greatest value to bats, measures to ensure incursion into these habitats does not occur will be put in place, e.g. security fencing, which will be implemented at an early stage to protect retained habitats from incursion during construction. Appropriate buffers of 15m will be established around trees with bat roosting potential.	Embedded	Construction Decommissioning	Applicant	Requirement 5. Detailed Design Approval Requirement 12. CEMP Requirement 19. Decommissioning and restoration Requirement 7. LEMP
EC-23	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<b>Invasive Species</b> A pre-construction survey will provide an update on the presence and location of any invasive species, the findings of which will inform the implementation of measures to prevent their spread into the wild. These surveys will inform the production of a Biosecurity Management Plan which will set out procedures to ensure that no invasive species are brought onto the Order limits.	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration  Requirement 7. LEMP
EC-24	Ecology	Water Environment	Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<b>Fencing</b> Whilst the design of the Solar and Energy Storage Park retains habitats of greatest value to reptiles, measures to ensure incursion into these habitats does not occur will be put in place, e.g. security fencing, which will be implemented at an early stage to protect retained habitats from incursion during construction.	Embedded	Construction Decommissioning	Applicant	Requirement 9. Fencing and Enclosures Requirement 12. CEMP Requirement 19. Decommissioning and restoration
EC-25	Ecology	Water Environment	Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<b>Safe Storage of Materials</b> Requirements for the safe storage of chemicals / other hazardous materials (e.g. fuel) reaching retained habitats through flood events during construction.	Embedded	Construction Operation Decommissioning	Applicant	Requirement 12. CEMP Requirement 13. OEMP Requirement 19. Decommissioning and restoration
EC-26	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<b>Otter and Water Vole</b> The Scheme has been designed to ensure running water habitats are outside of the developable areas of the Scheme. Therefore, this habitat will be retained and measures taken to avoid direct or indirect impacts.	Embedded	Construction Decommissioning	Applicant	Requirement 5. Detailed Design Approval Requirement 7. LEMP Requirement 12. CEMP

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					<p>The crossing of the River Trent and other watercourses of value to Otter and Water Vole will be undertaken using HDD methods to avoid impacts to watercourses, including riparian habitats. Set-backs of a minimum of 10m from the centreline of the watercourse is considered sufficient to mitigate for potential hazards such as chemical and soils spills into watercourses and avoid potential direct impacts to watercourses and species such as Otter, which use the River for commuting and foraging.</p> <p>Pre-construction surveys will be undertaken to support the baseline survey findings where intrusive crossing methods of watercourses are proposed within the Order limits. The purpose of these pre-construction surveys is to ensure mitigation during the construction phase is based on the latest protected species information. Should there have been any changes to Otter or Water Vole distribution within the Order limits, Natural England licences and mitigation measures (such as the use of bailey bridges to facilitate the access road and non-intrusive crossing for cabling) will be updated accordingly.</p>			Requirement 19. Decommissioning and restoration	
EC-27	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<p><b>Other Mammals</b></p> <p>The Scheme design retains and avoids the majority of habitats of value to other mammals, including woodland, grassland margins, ditches, scrub and hedgerows within the Solar and Energy Storage Park.</p> <p>Vegetation clearance will be undertaken in advance of construction and at an appropriate time of year so as to avoid incidental injuring or killing of animals, including Brown Hare and concordant with the requirements for other species such as nesting birds and reptiles.</p> <p>Implementation of measures to avoid animals being injured or killed within construction working areas, through excluding them from such areas and preventing them from falling into and becoming trapped in excavations. No excavations will remain open overnight and if excavations are required to be left open, ramps will be provided to allow animals a means of escape.</p>	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration Requirement 7. LEMP
EC-28	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To protect existing wildlife and habitats within and around the Order limits.	<p><b>Ecological Management and Monitoring</b></p> <p>Any required management of vegetation within the Scheme will need to be undertaken in accordance with legislative requirements associated with breeding birds i.e undertaken outside of the bird nesting season (typically March to August inclusive).</p> <p>A programme of surveillance and monitoring will be established prior to operation to ensure that biodiversity measures are implemented according to plan with necessary remediation. These elements will be informed by an Ecology Advisory Group established pre-construction, invitees including Natural England, Nottinghamshire and Lincolnshire County Councils and wildlife trusts.</p>	Embedded	Operation	Applicant	Requirement 13. OEMP Requirement 7. LEMP

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EC-29	Ecology		Chapter 8: Ecology and Nature Conservation of the ES [EN010131/APP/3.1]	To reduce cumulative effects on existing wildlife and habitats within and around the Order limits.	<b>Cottam and West Burton solar projects</b> Where practicable, joint mitigation will be undertaken with Cottam and West Burton solar projects within the Shared Grid Connection Corridor. The detailed CEMP(s) will outline all ecological mitigation, which will likely include combined pre-construction surveys, protected species mitigation, translocation (if required), monitoring and post construction reinstatement plans.	Embedded	Construction	Applicant	Requirement 12. CEMP Requirement 7. LEMP
WE-01	Water Environment	Ecology	Chapter 9: Water Environment of the ES [EN010131/APP/3.1]	Minimising the risk of pollution during flood events.	<b>Good Practice Measures for Water Environment and Flood Risk</b> Relevant Good Practice Guidance (GPPs) and Pollution Prevention Guidance (PPGs), as well as additional good practice guidance for the water environment including British Standards and key CIRIA documents, will be followed for the water environment and flood risk during construction.	Embedded	Construction Operation Decommissioning	Applicant	Requirement 12. CEMP Requirement 13. OEMP Requirement 19. Decommissioning and restoration
WE-02	Water Environment	Ecology	Chapter 9: Water Environment of the ES [EN010131/APP/3.1]	Minimising impacts and pollution to waterbodies	<b>Surface Water Management</b> Regular inspection and maintenance of drainage systems will be undertaken, if evidence of excessive erosion or sedimentation associated with the Scheme is found, further actions will be considered to remediate the impact.	Embedded	Construction Operation Decommissioning	Applicant	Requirement 10. Surface and foul water drainage
WE-03	Water Environment	Ecology	Chapter 9: Water Environment of the ES [EN010131/APP/3.1]	Minimising impacts and pollution to waterbodies.	<b>Watercourse Crossings - HDD</b> A set of avoidance areas (as shown on <b>ES Volume 3: Appendix 2-B (Figure 1) [EN010131/APP/3.3]</b> have been assigned along within the Grid Connection Corridor where watercourses would be crossed by a HDD methodology rather than intrusive, open-cut techniques. Launch and exit pits will be sited outside the avoidance areas, and a minimum of 10m from watercourses. The maximum depth of drilling will be under the River Trent and would be up to a maximum of 25m beneath the bed. For all watercourses the depth of drilling beneath the watercourse bed would be a minimum of 2m, in keeping with IDB requirements. A site-specific hydraulic fracture (frac-out) 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.	Embedded	Construction	Applicant	Requirement 5. Detailed Design Approval Requirement 12. CEMP
WE-04	Water Environment	Ecology	Chapter 9: Water Environment of the ES [EN010131/APP/3.1]	Minimising impacts and pollution to waterbodies.	<b>Watercourse Crossings – Open Cut</b> A pre-works morphology survey of the channel of each watercourse to be crossed will be undertaken prior to construction. Works should be carried out in the drier months where possible and once reinstated, silt fences, geotextile matting or straw bales should be used initially to capture mobilised sediments until the watercourse has returned to a settled state.	Embedded	Construction	Applicant	Requirement 12. CEMP Requirement 19.
WE-05	Water Environment	Ecology	Chapter 9: Water Environment of the ES [EN010131/APP/3.1]	Minimising impacts and pollution to waterbodies.	<b>Access Track Crossings of Watercourses</b> Where a new drainage ditch crossing is required at a high sensitivity watercourse crossing, both a new culvert and an	Embedded	Construction	Applicant	Requirement 12. CEMP

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					open span bridge will be considered, with the type of crossing selected determined based on site-specific factors and in consultation with the relevant authority (generally the internal drainage board (IDB)/ lead local flood authority). As agreed with the Environment Agency, a Water Framework Directive (WFD) Strategy will be included as an appendix to the detailed CEMP.				
WE-06	Water Environment		Chapter 9: Water Environment of the ES [EN010131/APP/3.1]	Minimising impacts during flood events	<b>Measures in Scheme Design</b> The Solar and Energy Storage Park is mostly located within Flood Zone 1 with the minimum height of the lowest part of the solar PV Panels to be 0.8m above ground level (AGL). Where flood depths exceed 500mm, up to a maximum of 800mm, the lowest part of the panel height may be raised further to 1.1 m (AGL) (i.e. 800mm + 300 mm freeboard). Mounting poles will generally be driven or screwed into the ground to a maximum depth of 2m. The design has ensured that the solar PV Panels will be off set from all watercourses and ponds by 10m.	Embedded	Operation	Applicant	Requirement 5. Detailed Design Approval
WE-07	Water Environment		Chapter 9: Water Environment of the ES [EN010131/APP/3.1]	Minimising erosion and flood risk resulting from surface runoff	<b>Drainage Design and Strategy</b> The drainage design as per the <b>Outline Drainage Strategy [EN010131/APP/3.3]</b> will attenuate surface water runoff from the PV panels and other infrastructure within the Order limits, whilst minimising the flood risk to the Scheme and surrounding areas.	Embedded	Construction Operation	Applicant	Requirement 10. Drainage Strategy
WE-08	Water Environment		Chapter 9: Water Environment of the ES [EN010131/APP/3.1]	Minimising the risk of pollution to water bodies.	<b>Water Quality Monitoring</b> Water quality monitoring will be undertaken during construction, the details for which will be set out in the Water Management Plan (WMP)	Embedded	Construction	Applicant	Requirement 12. CEMP
WE-09	Water Environment	Ecology	Chapter 9: Water Environment of the ES [EN010131/APP/3.1]	Minimising impacts from stored materials.	<b>Storage of Materials</b> Good industry practice measures will be incorporated for the safe storage of materials, including appropriate containment measures, bunding, drip trays installed as part of plant and machinery used.	Embedded	Construction Operation Decommissioning	Applicant	Requirement 12. CEMP Requirement 13. OEMP Requirement 19. Decommissioning and restoration
WE-10	Water Environment		Chapter 9: Water Environment of the ES [EN010131/APP/3.1]	Increasing resilience to flooding	<b>Resilience to Flooding</b> Regular inspection and maintenance of the drainage systems, SuDS and culverts will take place throughout the operational phase. This will be undertaken in accordance with good practice guidance. Details are included in <b>Outline Drainage Strategy in ES Volume 3: Appendix 9-C [EN010131/APP/3.3]</b> . SuDS features will be utilised to ensure the surface water drainage strategy adequately attenuates and treats runoff from the Scheme, whilst minimising flood risk to the Order limits and surrounding areas.	Embedded	Operation	Applicant	Requirement 10. Surface and foul water drainage
LV-01	Landscape and Visual		Chapter 10: Landscape and Visual [EN010131/APP/3.1]	Visual Impacts on receptors	<b>Careful siting in the landscape</b> With reference to the <b>Outline Design Principles [EN010131/APP/2.3]</b> and <b>Works Plans EN010131/APP/5.2]</b>	Embedded	Construction Operation	Applicant	Requirement 5. Detailed Design Approval



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					the Scheme design has been carefully sited where it will appear in views experienced by residents to avoid or minimise adverse effects.				
LV-02	Landscape and Visual		Chapter 10: Landscape and Visual [EN010131/APP/3.1]	Visual Impacts on receptors	<p><b>Creating new green infrastructure</b> planting proposed as part of the Scheme is detailed in the <b>Outline LEMP [EN010131/APP/7.10]</b>. The planting would be delivered in 2 phases:</p> <ul style="list-style-type: none"> <li>• Early planting in order to maximise growth prior to the Scheme's operation, this has been included as Advanced Planting in <b>Figure 10-22: Advanced Planting of the ES [EN010131/APP/3.2]</b>. This will be carried out at the next available planting season and prior to the beginning of the construction phase; and</li> <li>• Residual Mitigation Planting (remaining planting) would be undertaken at the end of the construction phase.</li> </ul>	Embedded	Construction	Applicant	Requirement 7. LEMP Requirement 12. CEMP
LV-03	Landscape and Visual		Chapter 10: Landscape and Visual [EN010131/APP/3.1]	Visual Impacts on receptors	<p><b>Vegetation Buffers</b> The following minimum offsets / buffer from existing vegetation boundaries have been incorporated:</p> <ul style="list-style-type: none"> <li>• 15m from Ancient Woodland,</li> <li>• 15m from retained existing woodland and tree groups;</li> <li>• 10m from hedgerows with trees;</li> <li>• 5m from hedgerows without trees;</li> <li>• 10m from proposed or strengthened hedgerows with trees; and</li> <li>• 10m from retained existing ponds to be enhanced with remedial vegetation clearance and proposed bankside grassland.</li> </ul>	Embedded	Construction	Applicant	Requirement 5. Detailed Design Approval Requirement 7. LEMP Requirement 12. CEMP
LV-04	Landscape and Visual		Chapter 10: Landscape and Visual [EN010131/APP/3.1]	Visual Impacts on receptors	<p><b>Sensitive design in relation to form, colour, and materials</b></p> <ul style="list-style-type: none"> <li>• The use of tracker panels has been discounted.</li> <li>• The cable to be laid in the Grid Connection Corridor is proposed to be underground.</li> <li>• The proposed fencing has been designed to minimise its visual prominence. The fence will be similar to a deer fence or other wire mesh security fencing and be 2.5m to 3m high.</li> </ul>	Embedded	Construction Operation	Applicant	Requirement 5. Detailed Design Approval
LV-05	Landscape and Visual		Chapter 10: Landscape and Visual [EN010131/APP/3.1]	Visual Impacts on receptors	<p><b>Sensitive Design of Lighting</b></p> <ul style="list-style-type: none"> <li>• No visible lighting will be utilised at the site perimeter fence. Infrared lighting will be provided by the CCTV/security system to provide night vision functionality for CCTV;</li> <li>• Lighting within the site will be manually operated and used only in fault or emergency situations;</li> <li>• Lighting at the BESS and on-site substation will be passive infrared (PIR) operated, calibrated to detect vehicles and personnel;</li> </ul>	Embedded	Operation	Applicant	Requirement 5. Detailed Design Approval

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					<ul style="list-style-type: none"> <li>Lighting at the BESS entrances and adjacent to the access track within the BESS will be operated by PIR calibrated to trigger on vehicle and personnel, with the option of manual control;</li> <li>All visible lighting will be 50W, installed at a maximum height of 4m with downward light fittings to prevent light spillage and glare; and</li> <li>External lighting at the Operations and Maintenance Building will be provided by PIR operated lights calibrated to vehicles and personnel. These will be located at building entrances and to cover the parking and refuge areas. These will be PIR operated calibrated to vehicles and personnel.</li> </ul>				
LV-06	Landscape and Visual		Chapter 10: Landscape and Visual [EN010131/APP/3.1]	Visual Impacts on receptors	<b>Lighting during construction and decommissioning</b> Lighting would be in the form of mobile lighting towers used where natural light is unable to reach (sheltered or confined areas) and during core working hours (Monday – Saturday: 08.00-18.00) during winter months. Lights would be fitted with downward directional fittings to minimise light spill and glare. Lights would be directed into the Order limits, not towards the boundary.	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration
LV-07	Landscape and Visual		Chapter 10: Landscape and Visual [EN010131/APP/3.1]	Visual Impacts on receptors	<b>Site Management</b> Ensuring a tidy and neat working area, covering stockpiles, and storing topsoil in accordance with good practice measures as detailed in Table 3-4: Water Environment.	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP
NV-01	Noise and Vibration		Chapter 11: Noise and Vibration of the ES [EN010131/APP/3.1]	Minimising noise and vibration from activities	<b>Best Practicable Means for Noise and Vibration</b> Standards of good practice for noise and vibration will be followed to minimise impacts from activities.	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration
NV-02	Noise and Vibration		Chapter 11: Noise and Vibration of the ES [EN010131/APP/3.1]	Minimising noise during non-working hours	<b>Standard Working Hours</b> <b>Summer:</b> 07:00 – 19:00 Monday to Friday and Saturday 09:00-13:00 with no Sunday or Bank Holiday working. <b>Winter:</b> 08:00 – 18:00 Monday to Friday and Saturday 09:00-13:00 with no Sunday or Bank Holiday working.  Some works activities may need to occur out of these hours/times due to activities requiring to be undertaken continuously (such as HDD and cable jointing). Where work outside of times is necessary prior notification will be provided to the Local Planning Authority.	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration
NV-03	Noise and Vibration		Chapter 11: Noise and Vibration of the ES [EN010131/APP/3.1]	Minimising noise during non-working hours	<b>Outside Working Hours</b> As requirements and locations for HDD activities will not be finalised until a principal contractor is appointed, a hierarchy of mitigation measures is listed below: <ul style="list-style-type: none"> <li>Where possible, avoid HDD works within 200m of residential receptors;</li> </ul>	Embedded	Construction	Applicant	Requirement 12. CEMP

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					<ul style="list-style-type: none"> <li>Where HDD activities may occur within 200m of sensitive receptors, the option for open cut cable laying will be explored as an alternative to HDD;</li> <li>The potential use of quieter equipment will be explored by the principle contractor; and</li> <li>Depending on location, plant and timing of works, noise matting will be installed on Heras fencing around the HDD site boundary to screen receptors from noise emissions.</li> </ul>				
NV-04	Noise and Vibration		Chapter 11: Noise and Vibration of the ES [EN010131/APP/3.1]	Minimising noise and vibration impacts to nearby residents	<p><b>Noise Monitoring and Reporting</b></p> <p>Monthly reporting will be undertaken to advise local residents of potential noisy works that are due to take place. Noise complaints will be monitored and reported to the Applicant for immediate investigation and action and a logbook of complaints will be prepared and managed by the Site Manager.</p> <p>A construction noise monitoring scheme will be developed in the detailed CEMP(s).</p>	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration
NV-05	Noise and Vibration		Chapter 11: Noise and Vibration of the ES [EN010131/APP/3.1]	Minimising noise and vibration impacts to nearby residents during operation.	<p><b>Scheme Design</b></p> <p>A commitment that noise at sensitive receptors will be no higher than the levels presented in Table 11-16 of ES Chapter 11 Noise and Vibration [EN010131/APP/3.1].</p>	Embedded	Operation	Applicant	Requirement 5. Detailed Design Approval Requirement 13. OEMP Requirement 15. Operational Noise
SE-01	Socioeconomics		Chapter 12: Socio-Economic and Land-use of the ES [EN010131/APP/3.1]	Protecting soil resources	<p><b>Outline Soil Management Plan (SMP)</b></p> <p>Prior to commencement of works a Soil Management Plan (SMP) will be prepared in accordance with the Outline Soil Management Plan (Outline SMP). The SMP will detail the management of soil on areas such as temporary working compounds, temporary and permanent tracks and sites of temporary and permanent buildings.</p>	Embedded	Construction Operation Decommissioning	Applicant	Requirement 12. CEMP
TA-01	Transport and Access		Chapter 13: Transport and Access of the ES [EN010131/APP/3.1]	Minimising construction traffic	<p><b>Suitable Routing and Timing of Construction Traffic</b></p> <ul style="list-style-type: none"> <li>Implementation of a <b>Framework CTMP [EN010131/APP/3.3]</b> and <b>Framework Construction Environmental Management Plan (CEMP) [EN010131/APP/7.3]</b> during the construction phase, as well as a <b>Framework Decommissioning Environmental Management Plan (DEMP) [EN010131/APP/7.5]</b> during the decommissioning phase, to detail and formalise the measures that will mitigate construction-related and decommissioning-related effects.</li> <li>Restricting Heavy Goods Vehicle (HGV) movements and abnormal loads to certain routes (see HGV Routing Plan in <b>ES Volume 2: Figure 13-3 and Abnormal Load Routing Plan in ES Volume 2: Figure 13-6 [EN010131/APP/3.2]</b>).</li> <li>Reducing HGV movements during certain times of the day (e.g. between 07:00 and 09:00, as well as between 17:00 and 19:00), to avoid increasing traffic</li> </ul>	Embedded	Construction Decommissioning	Applicant	Requirement 14. CTMP

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					<p>levels on the surrounding highway network during the traditional weekday peak hours.</p> <ul style="list-style-type: none"> <li>Prohibiting HGVs from using any level crossings and the Clay Lane underpass to ensure operational rail safety.</li> <li>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.</li> <li>Implementing a monitoring system to record the route of all HGVs travelling to and from the Scheme, to record any non-compliance with the agreed routing plan/ delivery hours and to communicate any issues to the relevant suppliers to ensure the correct routes and times are followed.</li> <li>Developing a communications strategy including regular meetings with contractors to review and address any issues associated with travel to/ from the Scheme, as well as to relay information including any restrictions and requirements which should be followed.</li> </ul>				
TA-02	Transport and Access	Climate Change	Chapter 13: Transport and Access of the ES [EN010131/APP/3.1]	Construction phase damage to highway assets	<p><b>Road Condition Surveys</b></p> <p>Carrying out road condition surveys pre-construction, during construction and post-construction, to identify any defects that arise to the highway's assets/verges during the construction phase of the Scheme for re-instatement.</p>	Embedded	Construction	Applicant	Requirement 14. CTMP Requirement 12. CEMP
TA-03	Transport and Access	Climate Change	Chapter 13: Transport and Access of the ES [EN010131/APP/3.1]	Minimising construction traffic	<p><b>Encouraging Sustainable Travel</b></p> <ul style="list-style-type: none"> <li>Encouraging local construction staff to car share to reduce single occupancy car trips.</li> <li>Implementing a shuttle service to transfer staff to/ from nearby catchment areas to reduce vehicle trips on the surrounding highway network.</li> <li>Implementing minibuses to transfer staff internally within the Solar and Energy Storage Park, as well as to/ from the Grid Connection Corridor as required.</li> <li>Providing sufficient (but limited) on-site car parking within the main compound (A156 Gainsborough Road) to accommodate the expected peak parking demand of construction staff within the Solar and Energy Storage Park.</li> <li>Providing limited on-site car parking within the smaller compounds (Kexby Lane North, Kexby Lane South and Marton Road) to accommodate the required parking demand of construction staff.</li> <li>Providing sufficient cycle parking spaces within the Solar and Energy Storage Park to encourage construction staff to travel by bicycle where viable (six cycle parking spaces to be provided).</li> </ul>	Embedded	Construction Decommissioning	Applicant	Requirement 14. CTMP

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TA-04	Transport and Access	Socio-Economics Human Health	Chapter 13: Transport and Access of the ES [EN010131/APP/3.1]	Minimising impacts to PROW Users	<b>Maintaining Public Rights of Way (PROW)</b> <ul style="list-style-type: none"> <li>Maintaining access to/ along PROW, or otherwise providing temporary PROW diversion routes where necessary to avoid any PROW closures or potential conflicts with the Scheme (e.g. for the Grid Connection Corridor) where possible. The diversion routes will be agreed with the local authorities prior to construction.</li> <li>Providing sufficient protection/ separation between existing PROW and construction routes where necessary.</li> <li>Managing areas where the proposed construction route crosses any existing PROW (where these are unable to be diverted) or local access roads, by maximising visibility between construction vehicles and other users (pedestrians and road users), implementing traffic management.</li> </ul>	Embedded	Construction Operation Decommissioning	Applicant	Requirement 16. Public Rights of Way Diversion
TA-05	Transport and Access		Chapter 13: Transport and Access of the ES [EN010131/APP/3.1]	Minimising disruption of construction traffic and risk of traffic accidents on surrounding roads.	<b>Site Access and Internal Access Roads</b> <ul style="list-style-type: none"> <li>Providing suitable points of access for construction vehicles to accommodate swept paths and designed with adequate visibility, with any supporting improvements to take place within the highway boundary and/ or the Order limits if required.</li> <li>Providing a haul road to facilitate the construction of the Grid Connection Corridor.</li> <li>Utilising the existing access arrangements for Cottam Power Station to access the Substation via Cottam Road, which will be managed and maintained by National Grid.</li> <li>Implementing local off-site highway improvements to accommodate abnormal loads travelling to the Solar and Energy Storage Park.</li> <li>Implementing highway improvements to accommodate construction vehicles and cranes travelling to/ from the Scheme.</li> <li>Positioning of suitably qualified banksmen at the proposed accesses for the Scheme and at internal crossing points, to allow all vehicle arrivals and departures to be safely controlled during the construction period.</li> <li>Vegetation clearance at the proposed access points where required to achieve appropriate levels of visibility at these locations.</li> </ul>	Embedded	Construction Decommissioning	Applicant	Requirement 14. CTMP
TA-06	Transport and Access		Chapter 13: Transport and Access of the ES [EN010131/APP/3.1]	Minimising disruption of construction traffic and risk of traffic accidents on surrounding roads.	<b>Construction Compounds</b> The main construction compound for the Solar and Energy Storage Park will be served by the proposed access on the A156. There are also expected to be three smaller secondary compounds across the Solar and Energy Storage Park, served by alternative access points or the internal construction access routes.	Embedded	Construction Decommissioning	Applicant	Requirement 14. CTMP Requirement 12. CEMP Requirement 19. Decommissioning and restoration

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TA-07	Transport and Access		Chapter 13: Transport and Access of the ES [EN010131/APP/3.1]	Minimising disruption of construction traffic and risk of traffic accidents on surrounding roads.	<b>Emergency Access</b> Should it be necessary, access for emergency vehicles will be achievable via several access points including the A156, Kexby Lane and Marton Road.	Embedded	Construction Decommissioning	Applicant	Requirement 14. CTMP Requirement 12. CEMP Requirement 19. Decommissioning and restoration
TA-08	Transport and Access		Chapter 13: Transport and Access of the ES [EN010131/APP/3.1]	Minimising disruption of construction traffic and risk of traffic accidents on surrounding roads.	<b>Abnormal Loads</b> A specialised haulage service will be employed to allow abnormal loads to transfer components with the necessary escort, permits and traffic management, with the applicant consulting with the relevant highways authorities to ensure the correct permits are obtained	Embedded	Construction Decommissioning	Applicant	Requirement 14. CTMP
TA-09	Transport and Access		Chapter 13: Transport and Access of the ES [EN010131/APP/3.1]	Minimising disruption of construction traffic and risk of traffic accidents on surrounding roads.	<b>Cottam and West Burton solar projects</b> The opportunity to combine mitigation for the West Burton Solar Project and Cottam Solar Project schemes will be explored in order to reduce cumulative impacts during the construction phase. Further details will be set out within the Detailed CTMP(s) once further details in relation to the Cottam and West Burton solar projects schemes are known.	Embedded	Construction Decommissioning	Applicant	Requirement 14. CTMP
TA-10	Transport and Access		Chapter 13: Transport and Access of the ES [EN010131/APP/3.1]	Minimising disruption of construction traffic during the installation of the cable.	<b>Temporary Traffic Management (TTM)</b> Implementing TTM where required when the Grid Connection Cables are installed to connect Cottam Substation with the Solar and Energy Storage Park. Further details regarding arrangements and timeframes will be set out in the <b>Framework CTMP [EN010131/APP/3.3]</b> .	Embedded	Construction Decommissioning	Applicant	Requirement 14. CTMP
TA-11	Transport and Access		Chapter 13: Transport and Access of the ES [EN010131/APP/3.1]	Enhancing transport routes and minimising disruption of increased traffic.	<b>Maintaining Operational Access</b> Providing suitable points of access for operational phase vehicles, including on the A156, Kexby Lane (North and South) and Marton Road. Converting the internal construction routes to maintenance routes, to allow operational vehicles to access all areas of the Solar and Energy Storage Park via the proposed access points during the operational phase.	Embedded	Operation	Applicant	Requirement 13. OEMP
TA-12	Transport and Access		Chapter 13: Transport and Access of the ES [EN010131/APP/3.1]	Enhancing transport routes and minimising disruption of increased traffic.	<b>Suitable Routing of Operational Traffic</b> Prohibiting vehicles from using any levelcrossings. Prohibiting large maintenance vehicles from using the Clay Lane underpass by utilising the Kexby Lane South access or the Marton Road access to ensure operational rail safety.	Embedded	Operation	Applicant	Requirement 13. OEMP
TA-13	Transport and Access	Glint and Glare Landscape and Visual	Chapter 13: Transport and Access of the ES [EN010131/APP/3.1]	Minimising the impact of glint and glare on road users.	<b>Additional Screening</b> Providing additional screening e.g. hedgerows where required to conceal solar reflections and ensure operational road and rail safety.	Embedded	Construction Operation	Applicant	Requirement 7. LEMP
TA-14	Transport and Access	Socio-Economics Human Health	Chapter 13: Transport and Access of the ES [EN010131/APP/3.1]	Minimising impacts to PROW Users	<b>PROW Management During Operation</b> Controlling areas where the internal maintenance route crosses any existing PROW or local access roads (such as providing gates), permitting only operational traffic to utilise	Embedded	Operation	Applicant	Requirement 16. Public Rights of Way Diversion

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					these internal routes within the Solar and Energy Storage Park. Operational traffic should give-way to other users (pedestrians and road users) when utilising the crossing points. Visibility will be maximised between operational vehicles and other users, with warning signage provided if required.				
HH-01	Human Health		Chapter 14: Human Health of the ES [EN010131/APP/3.1]	To minimise the effects of the Scheme on Human Health	<b>Topic specific mitigation measures for Human Health</b> Mitigation measures are embedded within the Scheme, as set out in the respective chapters, to reduce other construction and operational effects (such as noise, air quality and landscape) which in turn will mitigate the effects on the community and existing facilities from a human health perspective.	Embedded	Construction Operation Decommissioning	Applicant	Requirement 12. CEMP Requirement 13. OEMP Requirement 19. Decommissioning and restoration Requirement 7. LEMP
AQ-01	Air Quality		Chapter 15: Other Environmental Topics of the ES [EN010131/APP/3.1]	Minimising dust emissions from activities and vehicles	<b>Good Practice Measures for Dust</b> Standards of good practice for air quality, as set out in the Institute of Air Quality Management (IAQM) 'Guidance on the Assessment of Dust from Demolition and Construction', will be followed during construction, operation and decommissioning to minimise dust from activities and vehicles.	Embedded	Construction Operation Decommissioning	Applicant	Requirement 12. CEMP Requirement 13. OEMP Requirement 19. Decommissioning and restoration
AQ-02	Air Quality		Chapter 15: Other Environmental Topics of the ES [EN010131/APP/3.1]	Minimising dust emissions from activities and vehicles	<b>Communications:</b> a) Develop and implement a stakeholder communications plan that includes community engagement before work commences on-site; b) Display the name and contact details of person(s) accountable for air quality and dust issues on-site. This may be the environment manager/engineer or site manager; and c) Display the head or regional office contact information.	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration
AQ-03	Air Quality		Chapter 15: Other Environmental Topics of the ES [EN010131/APP/3.1]	Minimising dust emissions from activities and vehicles	<b>Monitoring and Managing Dust</b> A Dust Management Plan (DMP) detailing any dust monitoring required prior to and during construction and decommissioning activities will be implemented and approved by the Local Authority.	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration
GG-01	Glint and Glare		Chapter 15: Other Environmental Topics of the ES [EN010131/APP/3.1]	To minimise the effects of the Scheme on Glint and Glare	<b>Additional Screening</b> Provide additional hedgerow planting to reduce glint and glare effects on residential and road receptors. This includes hedgerows to be grown, infilled, gapped up and maintained to a height of at least 3m in those areas indicated in the <b>Outline LEMP [EN010131/APP/7.10]</b> .	Embedded	Construction Operation	Applicant	Requirement 7. LEMP Requirement 12. CEMP Requirement 13. OEMP
TTU-01	Telecommunications, Television, Reception and Utilities		Chapter 15: Other Environmental Topics of the ES [EN010131/APP/3.1]	Minimising risk of damage to utilities	<b>Protection of Utilities</b> The risk of damage to utilities during construction will be minimised through mitigation, which will involve: • Locating the Scheme outside of utilities' protected zones.	Embedded	Construction Decommissioning	Applicant	. Protective Provisions (Schedule 16) Requirement 5. Detailed Design

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					<ul style="list-style-type: none"> <li>The use of ground penetrating radar or other appropriate techniques will be employed before excavation to identify any unknown utilities.</li> <li>Consultation and agreement of construction/demobilisation methods will be undertaken prior to works commencing (this would be covered by the protective provisions included in the DCO).</li> <li>Infrastructure that crosses the Scheme will be mapped and avoided through the design.</li> </ul>				
W-01	Waste		Chapter 15: Other Environmental Topics of the ES [EN010131/APP/3.1]	Potential to impact on sensitive receptors	<b>Sustainable Natural Resource Use and Waste Production</b> The applicant(s) will consider the objectives of sustainable resource and waste management and seek to use material resources efficiently, reduce waste at source, reduce waste that requires final disposal to landfill and apply the principles of the waste hierarchy. This would include, where reasonably practicable, working towards a cut and fill balance for excavations; segregation of construction materials on-site for appropriate re-use, recycling and recovery, with landfill as a last resort.	Embedded	Construction Operation Decommissioning	Applicant	Requirement 12. CEMP Requirement 13. OEMP Requirement 19. Decommissioning and restoration
W-02	Waste		Chapter 15: Other Environmental Topics of the ES [EN010131/APP/3.1]	Impacts of waste on the surrounding environment	<b>Prevention and Management of Waste</b> Use of off-site pre-fabrication will be used, where reasonably practical, including the use of prefabricated structural elements, cladding units, mechanical and electrical risers and packaged plant rooms. Burning of waste or unwanted materials will not be permitted on-site. All hazardous materials including chemicals, cleaning agents and solvent containing products to be properly sealed in sealed containers at the end of each day prior to storage in appropriately protected and bunded storage areas. Materials requiring removal from the Order limits would be transported using licensed carriers and records kept, detailing the types and quantities of waste moved and the destinations of this waste, in accordance with the relevant regulations.	Embedded	Construction Operation Decommissioning	Applicant	Requirement 12. CEMP Requirement 13. OEMP Requirement 19. Decommissioning and restoration
W-03	Waste		Chapter 15: Other Environmental Topics of the ES [EN010131/APP/3.1]	Impacts of waste on the surrounding environment	<b>Site Waste Management Plan</b> The types, quantities and destination of waste generated would be identified, measured and recorded through the Site Waste Management Plan (SWMP). A register of all waste loads leaving the Order limits would be maintained to provide a suitable audit trail for compliance purposes and to facilitate monitoring and reporting of waste types, quantities and management methods.	Embedded	Construction Operation Decommissioning	Applicant	Requirement 12. CEMP Requirement 13. OEMP Requirement 19. Decommissioning and restoration
W-04	Waste		Chapter 15: Other Environmental Topics of the ES [EN010131/APP/3.1]	Minimising the impact of waste	<b>Management of Operational Waste</b> Materials requiring removal from the Order limits during operation would be transported using licensed carriers and records kept, detailing the types and quantities of waste moved and the destinations of this waste, in accordance with the relevant regulations	Embedded	Operation	Applicant	Requirement 13. OEMP



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MAD-01	Major Accidents and Disasters	Human Health	Chapter 15: Other Environmental Topics of the ES [EN010131/APP/3.1]	Risk to health and safety	<b>Risk Assessments</b> 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	Applicant	Requirement 12. CEMP
MAD-02	Major Accidents and Disasters	Human Health	Chapter 15: Other Environmental Topics of the ES [EN010131/APP/3.1]	Risk to health and safety	<b>Health and Safety</b> 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.	Embedded	Construction Operation Decommissioning	Applicant	Requirement 12. CEMP Requirement 13. OEMP Requirement 19. Decommissioning and restoration
MAD-03	Major Accidents and Disasters	Human Health	Chapter 15: Other Environmental Topics of the ES [EN010131/APP/3.1]	Risk to health and safety	<b>Outline Battery Safety Management</b> An <b>Outline Battery Safety Management Plan</b> has been produced for the Scheme [EN010131/APP/7.1] and will be referred to during operation to safely reduce and manage the risk of fire during operation. This will be updated and maintained as a 'live document' throughout the operational phase of the Scheme.	Embedded	Operation	Applicant	Requirement 6. Battery Safety Management Plan
MAD-04	Major Accidents and Disasters	Human Health	Chapter 15: Other Environmental Topics of the ES [EN010131/APP/3.1]	Risk to health and safety	<b>Emergency Response Plan</b> An Emergency Response Plan will be prepared to minimise risks from smoke that may accompany a toxic gas release.	Embedded	Operation	Applicant	Requirement 13. OEMP
ARB-01	Arboriculture		Appendix 10-I Arboricultural Impact Assessment [EN010131/APP/3.3]	Proposed access tracks impact on trees	<b>Micro-siting of access tracks to avoid or reduce impacts on trees.</b> Access tracks will be micro-sited to avoid the Root Protection Area (RPA) of all veteran trees. Where existing access tracks are proposed to be upgraded within the RPAs of retained trees specialist construction methodologies will be required.	Embedded	Construction	Applicant	Requirement 5. Detailed Design Approval Requirement 12. CEMP
ARB-02	Arboriculture		Appendix 10-I Arboricultural Impact Assessment [EN010131/APP/3.3]	Proposed security fencing impact on trees	<b>Micro-siting of fencing</b> The fence should be micro-sited to avoid tree stems, particularly of moderate and high value trees with receiving pits for fence posts excavated by hand. Methodologies (such as excavation by hand and localised adjustment of fencepost positions) will be agreed at the detailed design stage and an Arboricultural Method Statement developed to ensure tree constraints are protected as fully as possible.	Embedded	Construction	Applicant	Requirement 9. Fencing and Enclosures Requirement 12. CEMP
ARB-03	Arboriculture		Appendix 10-I Arboricultural Impact Assessment [EN010131/APP/3.3]	Impacts to trees	<b>General Tree Protection</b> a) The default position is that the RPA and canopy spread of trees to be retained will form an effective Construction Exclusion Zone, secured with robust fencing where no access will be permitted. b) Tree protection method will be adhered to as set out in <b>Appendix C, Framework Construction Environmental Management Plan (CEMP)</b> [EN010131/APP/7.3]. c) A minimum 15m buffer zone has been applied to the ancient woodland boundary and all ancient and	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration

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					<p>veteran trees or trees subject to a Tree Preservation Order (TPO) will be retained and are fully protected.</p> <p>d) A verification survey will be carried out during the detailed design to confirm the conclusions of this Arboricultural Impact Assessment remain valid prior to the start of construction.</p> <p>e) Avoidance of trees within the Avoidance Areas where the haul road will be installed and utilise trackway where possible to minimise ground disturbance.</p>				
ARB-04	Arboriculture	Ecology and Landscape	Appendix 10-I Arboricultural Impact Assessment [EN010131/APP/3.3]	Impacts to trees	<p><b>Tree planting</b></p> <p>a) New tree planting should be implemented in accordance with the guidance set out in BS8545: 2014 Trees: from nursery to establishment in the landscape – Recommendations.</p> <p>b) Where new trees are to be planted, the minimum planting distances detailed in Annex Annexe A, Table A.1 of BS5837:2012 must be adhered to.</p> <p>c) Existing areas of unsurfaced ground must be protected if they are to be re-used for new plantings.</p>	Embedded	Construction	Applicant	Requirement 7. LEMP
ARB-05	Arboriculture	Water Environment Traffic	Appendix 10-I Arboricultural Impact Assessment [EN010131/APP/3.3]	Impacts to trees	<p><b>Storage of materials</b></p> <p>a) The storage of materials and any washing, mixing or refuelling will take place in agreed allocated areas at least 5m from the edge of the RPA of retained trees.</p> <p>b) 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.</p> <p>c) Particular care is required where high sided vehicles, long reach machinery and plant with jibs, booms and counterweights are to operate with in proximity to retained trees. A banksman will be used where the movement of plant or long reach machinery occurs within 5m of any part of a retained tree to ensure no damage is sustained.</p>	Embedded	Construction Decommissioning	Applicant	Requirement 12. CEMP Requirement 19. Decommissioning and restoration

Figure 1. Documents and Plans Secured in Schedule 2 Requirements

