Heckington Fen Solar Park

EN010123

Mitigation Schedule

Applicant: Ecotricity (Heck Fen Solar) Limited

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MITIGATION SCHEDULE

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1 INTRODUCTION

1.1 PURPOSE OF THIS DOCUMENT

1.1.1 This Mitigation Schedule document lists all the mitigation proposed in the Environmental Impact Assessment (EIA) for a Development Consent Order (DCO) Application for Heckington Fen Solar Park (hereafter referred to as "the Proposed Development") to the Planning Inspectorate.

1.1.2 The following schedule lists all measures proposed on a topic-by-topic basis and signposts the mitigation measure commitments made in the Environmental Statement (document reference 6.1); these measures are secured in the draft DCO (document reference 3.1) and associated documents.

1.1.3 Monitoring is proposed in respect of certain aspects of the Proposed Development and any monitoring will be undertaken in accordance with the monitoring provisions of various construction and operational management plans to be approved by the relevant authorities according to the Requirements of the draft DCO.

1.2 MITIGATION SCHEDULE

Table 1.1: Mitigation Schedule

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
Landscape and Visual/ Residential Amenity				
1	Additional Planting~~Hedgerows~~ Protection and enhancement of selected existing hedgerows by infilling and reinforcing with native species hedge plants of local provenance (to match existing hedgerow). New hedgerows along site boundaries to strengthen local landscape character (by reinforcing field patterns), provide visual screening of development, and increase ecological connectivity. New hedgerow tree planting (55 no.) is proposed at the northern edge of the Energy Park and new woodland tree planting (4200m$^{2)}$ in Field G8 with native species of local provenance. Internal retained field hedgerows shall be cut to a maximum of 3m high and Energy Park boundary hedgerows will be retained and maintained at a minimum height of 5m to ensure views into the Energy Park are filtered.	Embedded	Contractor	• Detailed design approval (DCO Requirement) • oLEMP (DCO Requirement)
2	Existing Vegetation The existing vegetation shall be managed, in accordance with best practice, where practicable to ensure its continued	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	presence and to aid the screening of low-level views into the Energy Park. It is envisaged that any construction works are unlikely to affect any of the perimeter vegetation present or abutting the boundaries of the Order Limit, taking into account the proposed offsets and tree/ hedgerow protection. In the unlikely event that the perimeter vegetation has to be removed / partially removed, a replacement planting will be considered. A pre-commencement survey of vegetation prior to decommissioning will need to be undertaken to establish the extent to which any vegetation removal will be required, if any.			
3	Construction Construction works to be carried out in phases in order to reduce the geographical extent of the activities within the Energy Park and movement in the landscape.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
4	Lighting Standard good practice measures will be followed with regard to safe site lighting during construction, operation and decommissioning. Any artificial lighting to be set to the minimum acceptable standards in terms of lux level, current at the time. The location of the lighting columns to be considered in the context of the retained vegetation, potential effects upon the	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	nocturnal species, and to provide maximum screening from the sensitive visual receptors. Any artificial lighting to be limited to the operational working hours only. Where security lighting is necessary this shall utilise passive infra-red (PIR) technology controlled and be triggered by movement only. Lighting shall use directional fitting to reduce and minimise any potential light spill and glare. Lighting fittings shall be installed with light hoods/cowls to direct lighting below the horizontal plane. The height of the lighting units / columns to be as small as practical to reduce light spill and glare. Lighting units to be directed towards the interior of the Energy Park and not outside of the boundaries of the Order Limit.			
5	Arboriculture The Root Protection Area (RPA) shall inform the extent of the tree protection zones to be applied during the construction phase. The tree survey shall be included within an Arboricultural Impact Assessment (AIA) and shall be accompanied by an Arboriculture Method Statement which will set out the mitigation and protection measures to be undertaken during the construction phase. Where works in close proximity to retained trees cannot be practically avoided, these works shall be undertaken in accordance with the current best practice, defined in British Standard (BS) 5837: 2012 Trees in relation to design, demolition and construction – Recommendations and National	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	Joint Utilities Group (NJUG) Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees, or guidance applicable at the time.			
6	Loss of Vegetation There is potential for loss of vegetation during the construction phase of the Proposed Development. To avoid and control the potential removal or damage to the existing and retained vegetation the proposed construction compounds and new access tracks have been designed at sufficient distance from these features to avoid encroachment into their root protection area (RPA).	Embedded	Applicant Contractor	• Detailed design approval (DCO Requirement) • oCEMP (DCO Requirement)
7	Fencing All necessary protective fencing shall be installed prior to the commencement of any site construction works. All hedgerows will be fenced during decommissioning.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
8	Community Orchard A new Community Orchard (2.15 hectares) using fruiting species of local provenance is proposed in the south western corner of the Energy Park, created as a new amenity space for the local community.	Additional Enhancement	Applicant Contractor	• Detailed design approval (DCO Requirement) • oLEMP (DCO Requirement) • oCEMP (DCO Requirement) • Works Plans (Work No. 9A)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	The area for the proposed Community Orchard to be excluded from any construction works and storage to avoid compacting the soil and degrading its quality.			
9	Permissive Path A new, looped permissive path connecting into Public Right of Way Heck/15/1 providing a circular route across the western part of the Energy Park and towards the 'Build a Future' educational facility and new community orchard. The new permissive path would result in a 4km route around the Energy Park, looping back to join Crab Lane.	Additional Enhancement	Applicant Contractor	• Detailed design approval (DCO Requirement) • oLEMP (DCO Requirement) • Works Plans (Work No. 9B)
10	Landscape, arborists and Ecological Clerks of Works (ECoW) to ensure that the landscape and ecology requirements of the oCEMP and oDRP are adhered to and that the works are monitored.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
Ecology and Ornithology				
11	Good Practice Construction Measures At the start of construction, a kick-off meeting will be held with the Site Manager, and a suitably qualified and experienced ecologist to discuss best practice and legal requirements for protected species, including badgers, bats, hares and nesting birds and ensuring existing habitats such as woodlands, hedgerows, grasslands and ditches are protected from direct damage.	Embedded	Contractor	• oCEMP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
12	Good Practice Construction Measures A further survey will check the Proposed Development for signs of protected species before construction commences in that area, for example badgers so their setts can be avoided (a 30m exclusion zone for heavy machinery or vibration). Where works are required in the breeding bird season (1 March to 31 August) impacted hedgerows will be checked for presence of nesting, prior to works commencing. If breeding birds are found an exclusion zone will be enforced until the nest is vacated – the size of this zone will be determined by a qualified ornithologist.	Embedded	Contractor	• oCEMP (DCO Requirement)
13	A suitably experienced local ecologist will be appointed as the ecological clerk of works to conduct regular site visit during construction to check compliance with ecological mitigation and to be on call through the construction period to advise and resolve any ecological risks to habitats or species.	Embedded	Contractor	• oCEMP (DCO Requirement)
14	An Ecological clerk will be employed/contracted to provide ecological advice to decommissioning contractor including advise on legislation, findings of ecological surveys and protected species licencing.	Embedded	Contractor	• oDRP (DCO Requirement)
15	Measures to minimise impact on the Wash SPA/ SAC • Erection of fencing to establish stand off from all ditches. • Restrict working during periods of heavy rain. • If required the installation of silt fencing.	Embedded	Contractor	• oCEMP (DCO Requirement)
16	Measures to minimise impact on South Forty Foot Drain • Direct drilling beneath the drain	Embedded	Contractor	• oCEMP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
17	Measures to minimise impact on Grasslands • The areas of grassland adjacent to watercourses will be fenced off from construction activity.	Embedded	Contractor	• oCEMP (DCO Requirement)
18	Measures to minimise impact on Hedgerows. • Dust-generating activities will be avoided and when not practical water bowers will be used to dampen soils and prevent dust blow onto boundary habitat. • Ensuring stockpiles of spoil and site materials will be stored away from field boundaries. • Restrictions on working during periods of heavy rain and the installation of silt fencing and/or temporary drainage channels if necessary. • Fencing will be installed as the first item in the construction programme, in order to demarcate the buffer between the boundary and construction area and boundary habitat. • Construction crew will be informed that no materials should be stored, or vehicles driven within this area via a toolbox talk delivered to all key construction staff at the commencement of construction. If any short section of hedgerow is to be removed during the laying of the Off-Site Grid Connection an ecological assessment by suitably qualified ecologist will be carried out prior to removal works. This works will be completed outside the bird breeding season and the hedgerow will be replanted in the next planting season with the same hedgerow species.	Embedded	Contractor	• oCEMP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
19	<u>Measures to minimise impact on Woodlands.</u> Root protection zones will be established in compliance with BS5837 (2012). Precautionary protection measures will be taken to fence all of woodlands and individual trees to ensure no roots damage and to avoid risk of accidental damage. The fencing will be installed prior to construction commencing, in order to demarcate the root protection zone buffer between the woodland and construction area. Construction crew will be informed that no materials should be stored, or vehicles driven within this area via a toolbox talk delivered to all key construction staff at the commencement of construction. In order to minimise dust deposition and run-off which may affect the woodland habitat. The following measure will be implemented: • stockpiles of spoil and site materials will be stored away from woodlands field boundaries, • restrictions on working close to woodlands during periods of heavy rain and the installation of silt fencing and/or temporary drainage channels if necessary.	Embedded	Contractor	• oCEMP (DCO Requirement) • DCO requirement (fencing)
20	<u>Measures to protect Water Vole</u> Although not currently present in the proposed development. Prior to any crossing water courses not via direct drilling a water vole survey will be conducted in the appropriate season	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	in sufficient time to ensure that if water voles re-colonise the area appropriate mitigation measures can be implemented. Establishment of appropriate standoff distances from water courses and minimise water crossing where these species have been identified during pre-decommissioning surveys.			
21	Measures to protect Badgers. • Prior to each stage of construction, a badger survey will be conducted in sufficient time for appropriate mitigation measure be in place where there is a potential for disturbance; • The creation of construction exclusion zones delineated by Heras fencing where appropriate to control direct impacts to setts; • If necessary licensed temporary closure of a sett or licensed works within an agreed distance from the sett; and • To prevent badgers and other mammals from becoming trapped the provision of ramps into any open excavations to allow any badger (or other mammals) that have fallen in to escape. • Appropriate buffer zones (30m) established around identified setts or appropriate license obtained to work within disturbance zone	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
22	Measures to protect Bats	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	• Fencing to protect accidental access or accidental damage to identified roost site in the derelict farm building in the centre of the Energy Park; • Fencing to any accidental damage to potential roost site trees and woodlands; • No security lighting spill onto to identified roost site or potential bats roost; • Lighting required during Direct drilling operations is temporary and directed at the working areas to avoid light spill; • No security lighting spill onto identified important foraging areas in particular wet and water filled drainage ditches.			
23	Measures to protect Brown Hare • Habitat manipulation to create suitable habitat for Brown Hare outside construction areas prior to commencement within each area of work; • Habitat manipulation to minimise suitability for Brown Hare in construction area prior to each phase on construction; • The provision of ramps into any open excavations to allow any Brown Hare (particularly leverets that have fallen in to escape); • Contractor training and induction to ensure awareness and care during installation of solar arrays and associated infrastructure; • Adopting a speed limit of 10mph across the site to reduce the possibility of incidental mortality; and • Any Brown Hares levers (young hares can run from birth) encountered during works should be allowed to move away of works.	Embedded	Contractor	• oCEMP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
24	Measures to protect Breeding Birds • Appropriate timing of clearance works (i.e., outside of the breeding season between October and February inclusive; and pre-clearance nesting bird checks if required; • In the event that any active bird nest is discovered the ecological clerk of works will be contacted immediately and if considered it would be impacted by clearance/installation works, works will be deferred within a minimum radius of the nest until the nest is no longer active. The ecological clerk of works will determine the appropriate radius and period during which works will be deferred; • Access to grass margins, ditches and woodland will be prevented by fencing to avoid accidental disturbance to nesting species; • Access to buildings on site will be prevented by fencing to avoid accidental disturbance to nesting species; • No development/ decommissioning activities should be undertaken within 500m of any of the Schedule 1 / Annex I species' nest-sites during the breeding season (March-July); • All parts of the Proposed Development where any development work is planned to take place during March-July will be carefully surveyed for breeding Quail prior to any work commencing.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
25	Measures to protect Wintering Birds	Embedded	Contractor	• oCEMP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	Once the timetable of the Off-site Cable Route corridor construction has been agreed and the timing of landowner access agreed it would also be possible to ensure there are alternative feeding areas for geese feeding the section of the grid connection route close to Swinehead.			
26	Potential for spillages or silt to enter watercourses and impact ecology. Measures to prevent spillage and runoff into water courses through best practice working methods. An appropriate standoff distance from all internal and IDB drainage ditches. A Water Management Plan (WMP) will be prepared to document the mitigation measures to be implemented to protect the water environment from adverse effects during decommissioning (as secured by the oDRP).	Embedded	Contractor	• Detailed design for standoff and protective provisions (DCO Requirement) • oDRP (DCO Requirement)
27	Potential for spillages or silt to entering the pond and impact ecology. Measures to prevent spillage and runoff into the pond through best practice working methods and fencing 10m from a pond.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
Hydrology, Hydrogeology, Flood Risk and Drainage				

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
28	Proposed Development Design The design of the Energy Park has considered landowner managed, and Internal Drainage Board ditches, and included minimum buffer zone distances of 8m and 9m respectively. Crossings will utilise existing culverts, with the exception of a new one required at new site entrance of the A17, over a landowner managed ditch.	Embedded	Applicant	• Detailed design approval (secured by DCO requirement) • Protective provisions (DCO) • (DCO Requirement)
29	Measures to reduce sediment and surface water runoff. Sediment and surface water run-off generated during the construction and decommissioning phase of the Proposed Development will be managed through good practice construction techniques. Major construction works such as large-scale earthworks, will be minimised during heavy precipitation events. Further details of mitigation measures for managing site runoff are within the oCEMP and oDRP (secured within the DCO).	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
30	SuDS Drainage on the Energy Park site will include elements of Sustainable Drainage Systems (SuDS) design, where appropriate.	Embedded	Applicant	• Detailed design approval (secured by DCO requirement)
31	Where required, cables would be laid at a sufficient depth beneath watercourses/drains to avoid causing damage to the integrity of embankments during installation.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
32	Management of spillage risk Appropriate storage of hydrocarbons and petrochemicals in accordance with Control of Substances Hazardous to Health (COSHH) Regulations 2002 and Control of Pollution (Oil Storage) (England) Regulations 2001 to avoid leakage. Any surface water potentially contaminated by hydrocarbons would be passed through oil interceptors prior to discharge. Further details of mitigation measures for managing spillage risk are within the oCEMP and oDRP (secured within the DCO).	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
33	Good Practice Measures Best practice working methods to be undertaken to prevent both water pollution and adverse impacts upon the surface water drainage regime. Requirements set out in the pollution prevention guidance (and any other relevant guidance available at the time of decommissioning). A Water Management Plan (WMP) will be prepared to document the mitigation measures to be implemented to protect the water environment from adverse effects during decommissioning. Surface Water Management infrastructure would be designed in accordance with CIRIA C753 and guidance set out by both the BSIDB and LLFA, such that the surface water run-off regime replicates that existing prior to development	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
34	Proposed Development Design Elevated floor levels and flood resilient construction measures. Building floor levels will be set an appropriate freeboard above the modelled breach flood level of the Head Dike, with flood sensitive equipment further raised compared to floor levels.	Embedded	Applicant	• Detailed design approval and Flood Risk Assessment compliance (secured by DCO requirement)
35	Proposed Development Design The Solar Panels have a leading-edge set at minimum 1m up to 1.5m Above Ground Level (AGL) dependent on location in the Energy Park. This design level has been defined based upon site-specific hydraulic modelling of a breach of the Head Dike/Skerth Drain embankment during the 1 in 1,000 year plus climate change flood event.	Embedded	Applicant	• Detailed design approval and Flood Risk Assessment compliance (secured by DCO requirement)
36	Proposed Development Design The design of the Energy Park site has ensured that there are no panels or ancillary equipment within 9m of any surface water drains operated by the Black Sluice Internal Drainage Board and 8m for all other drainage ditches. These buffers from the ditches have been set through consultation with the interested parties and ensure that they have all the access they need to maintain the flow of water in these ditches at all times.	Embedded	Applicant	• Detailed design approval (secured by DCO requirement) • Protective Provisions (DCO)
37	Flood Warning and Evacuation Plan A flood incident preparedness, response and recovery plan should be prepared for the Energy Park. Amongst other matters, this should set out the actions to be taken following	Embedded	Contractor	• oCEMP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	notification of a potential flood event and during and following flood conditions. The plan should identify operational 'trigger' levels and the roles and responsibilities of operational staff/managers. The plan should be prepared in consultation with stakeholders prior to the Energy Park becoming operational.			
38	The appointed decommissioning contractor will be required to produce an Emergency Response Plan (ERP) which will provide details of the response to an impending flood.	Embedded	Contractor	• oDRP (DCO Requirement)
39	A management system would be in place to adequately manage works within the floodplain and in the vicinity of flood defences.	Embedded	Contractor	• oDRP (DCO Requirement)
40	The appointed decommissioning contractor will be required to produce an Emergency Response Plan (ERP) which will provide details of the response to an impending flood.	Embedded	Contractor	• oDRP (DCO Requirement)
Cultural Heritage				
41	Protecting archaeological buried remains from damage (Roman ditches, pits, post-holes and evidence of salt-working): Completion of strip map sample excavations for, or diversion of discrete sections of the cable route around, selected areas of Roman archaeological interest as identified by previous survey works. Scope and methodology of strip map sample excavation to be formally agreed with the LPA Archaeological Advisors through submission of a detailed Written Scheme of	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement) • oWSI (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	Investigation in line with the Outline WSI submitted for the DCO. During decommissioning, archaeological observation and recording during the removal of ground-mounted infrastructure. Submission to the LPA Archaeological Advisors of details of the decommissioning strategy, and, if a need for archaeological observation and recording is confirmed, a Written Scheme of Investigation for such works; and the subsequent undertaking of the fieldwork and submission of a report to the LPA Archaeological Advisors upon completion.			
42	Protecting archaeological buried remains from damage (Roman ditches, pits, post-holes and evidence of salt-working): Further mitigation measures for some or all of the archeologically sensitive areas will be decided following completion of the strip map sample excavations but may include the following: • Excluding development from, and securely fencing off, zones to ensure no plant access during the construction phase; • Using above-ground technology i.e., ground mounted slabs and cable trays; • Deploying lightweight plant and laying protective matting; • Avoiding topsoil stripping/scraping and tilling – instead using hand-pushed seed spreader to establish new ground cover on bare earth; • Undertaking archaeological monitoring during any unavoidable groundworks e.g., HV cabling may have to be buried for H&S reasons.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement) • oWSI (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	Scope and methodology of further mitigation to be formally agreed with the LPA Archaeological Advisors through discussion and, as appropriate, submission of a revised development layout and/or landscape strategy, specifications and technical drawings of the chosen ground-mounted solution, and/or an Archaeological Mitigation or Management Plan and/or a detailed WSI for archaeological monitoring in line with the Outline WSI submitted for the DCO. During decommissioning, avoidance of levelling across the feature during removal of solar infrastructure, and perhaps also avoidance of future ploughing. Submission to the LPA Archaeological Advisors of details of the decommissioning strategy, making reference to avoidance of levelling during removal of solar infrastructure, as well as future land use activities in this area.			
43	Protecting archaeological buried remains from damage (post-medieval duck decoy): • Avoiding topsoil stripping or levelling, deploying lightweight plant, and laying protective matting for plant movements for the installation of solar infrastructure here. • Archaeological observation and recording during the excavation of cable trenches. Submission to the LPA Archaeological Advisors of an Archaeological Mitigation and Management Plan and, if a need for archaeological observation and recording is confirmed, a detailed WSI for such works in line with the Outline WSI submitted for the DCO.	Embedded	Contractor	• oCEMP (DCO Requirement) • oWSI (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
43	Site Design: Non-designated heritage assets, the upstanding buildings of Six Hundreds Farm, the boundary wall to the west of Elm Grange, and the drainage pump at Head Dike are retained within the Proposed Development. During construction, these assets will be fenced off and the construction team will be advised to avoid these assets whilst on the Energy Park. Incorporation of planting along the northern boundary of the Energy Park to partially screen the Proposed Development in designed views from the non-Listed Mill Green Farmhouse.	Embedded	Contractor	• Detailed design approval (secured by DCO requirement) • oCEMP (DCO Requirement) • oLEMP (DCO Requirement)
45	Heritage Setting Temporary indirect impacts to heritage assets through change to setting will be minimised by the retention of vegetative screening e.g., along Head Dike. The pre-development baseline conditions could essentially be restored if the site were returned to agricultural land use.	Embedded	Contractor	• Detailed design approval (secured by DCO requirement) • oCEMP (DCO Requirement)
Socio-Economic				
46	Supply Chain, Employment and Skills Plan The outline Supply Chain, Employment and Skills Plan will: 1. Detail the intention to use local labour where commercially viable and available, 2. Where practically feasible, available and cost competitive, procure goods and services, known as the supply chain, from local contractors, sub-contractors and suppliers to support local employment,	Embedded	Contractor	• Outline Supply Chain, Employment and Skills Plan (secured by DCO requirement) • oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	3. Detail recruitment and training opportunities involved in the development (construction and operation), and 4. Support the development of skills in the local area. The Outline Supply and Employment Skills Plan would cover both the decommissioning as well as construction phases of development.			
47	<u>Good Practice Construction Measures</u> PRoW HECK/15/1 is located along the northern boundary of the site. Given its location on the periphery of the Energy Park, it is not anticipated that the proposals will materially affect access to the footpath. However, should it be considered necessary by the highway authority appropriate signage and fencing could be erected. There are two PRoW's along the cable route which follow the alignment of the South Forty Foot Drain. As such, they will be unaffected by the cable routing as directional drilling will take place with no impacts on the surfacing of the PRoW. Therefore, no PRoWs are required to be excavated or altered as a result of the cable run.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement) • oCTMP (DCO Requirement)
Noise and Vibration				
48	<u>Working Hours</u> Construction/decommissioning works likely to generate substantial levels of noise, aside from potential trenchless works and HGV deliveries shall be limited to daytime hours of	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	08:00 to 18:00 during Monday to Friday, and 08:00 to 13:00 on Saturdays, unless otherwise agreed with the local authorities. Other construction activities unlikely to generate high noise levels (e.g. site access and inductions, light vehicle movements etc.) may continue during other day-time periods. If percussive piling is used for the support structures/foundations: when undertaken within 400 metres of residential properties, this should be further restricted to no more than two periods of four hours each with at least one hour of no piling between these four-hour periods and restricted to the hours of 08:00 to 18:00 Monday to Friday and 08:00 to 12:00 on Saturdays.			
49	Good Practice Measures Best Practicable Means (BPM) will be applied, as far as reasonably practicable, during construction works to minimise noise and vibration at noise sensitive receptors, including neighbouring residential properties and other sensitive receptors arising from construction activities. These include, as appropriate: • reference to the guidance in BS 5228 which all contractors should be familiar with. • mobile plant and stationary plant items to be routed or located to maximise separation distance from noise-sensitive receptors (where possible), accounting for site-specific constraints; • select quieter plant units where possible; • all plant when not in use is to be switched off and unnecessary revving of engines will be avoided;	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	• operate only well-maintained construction plant selected for the specific activity; and • provide site specific induction inclusive of good neighbourly behaviour and follow the Considerate Construction Scheme requirements.			
50	Communication with local sensitive receptors The detailed CEMP will set out a scheme for the provision of monthly reporting of information to local residents to advise of potential noisy works that are due to take place. This will include users of public rights of way which will be informed of periods of noisy works during the construction. In addition, specific engagement with Build-A-Future East Heckington will be undertaken to inform them of anticipated works periods, in particular the upgrade and temporary use of the track west of Elm Grange and any piling works within 600 metres. Local residents potentially affected by HDD work will be kept informed of the likely period during which the work will take place, the times and durations of planned works and the measures that are being taken to avoid unnecessary noise. On completion of the trenchless works at a particular location, local residents will be informed that the works are complete and noise effects due to trenchless works will cease.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
51	Horizontal Directional Drilling Noise	Embedded	Contractor	• oCEMP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	Where possible, HDD works within 500 metres of residential receptors will be restricted to daytime working hours on weekdays (i.e., 08:00 to 18:00, Monday to Friday or 08:00 to 13:00 on Saturdays) and interrupted at night.			• oDRP (DCO Requirement)
52	Horizontal Directional Drilling Noise HDD locations will be chosen to maximise the separation distance with noise-sensitive locations where possible. Drilling locations within the Energy Park Site (to cross underground utilities) shall not be closer than 300 metres from properties located along the A17 and at least 500 metres from other properties. No HDD will be carried out at locations within 100 metres of a residential property.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
53	Horizontal Directional Drilling Noise If HDD work is required to continue at night, it should be controlled, if possible, not to exceed a level of 50dB LAeq at the closest neighbouring residential properties (or 55 dB LAeq for properties located within 200 metres of the A17). If it is not possible to control HDD noise within these limits, the following measures will be investigated: • use of alternative techniques such as micro-bore / pipe jacking; • use of temporary noise barriers around trenchless compounds in order to provide screening for sources located at low heights (note however that it is likely to be impractical to provide noise barriers that are high enough to screen an entire HDD drilling rig, for example)	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	• monitoring noise from the works and interrupting the noisiest drilling work at night; and • offering affected residents temporary re-housing for the duration of the trenchless works.			
54	Noise Monitoring In consultation with the local authorities, noise monitoring may also be undertaken if required to control that noise from drilling at night-time periods (if relevant) does not exceed levels of 50 or 55dB L_{Aeq} during particular drilling periods at night.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
55	Operational Noise Work No. 1, Work No. 2, and Work No. 4 must not begin operating until an operational noise assessment containing details of how the design ensures the operational noise rating levels set out in Table 12.8 of Chapter 12 of the environmental statement are to be complied with has been submitted to and approved by both relevant planning authorities.	Embedded	Contractor	• (DCO Requirement 15)
Climate Change				
56	Good practice measures to minimise greenhouse gas emissions. • Designing, constructing and implementing the Proposed Development in such a way as to minimise the creation of waste and maximise the use of alternative materials	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	with lower embodied carbon, such as locally sourced products and materials with a higher recycled content where feasible. • Reusing suitable infrastructure and resources already available within the site where possible to minimise the use of natural resources and unnecessary materials (e.g., reusing excavated soil for fill requirements). • Increasing recyclability by segregating waste to be re-used and recycled where reasonably practicable. • Adopting the Considerate Constructors Scheme (CCS) to assist in reducing pollution from the Proposed Development by employing good industry practice measures. • Implementing staff minibuses to transport construction personnel to site or using car sharing options where possible. • Switching vehicles and plant off when not in use and ensuring construction vehicles conform to current UK emissions standards, and • Conducting regular planned maintenance of the construction plant and machinery to optimise efficiency.			
57	Health and safety plans developed for construction and decommissioning activities will be required to account for potential climate change impacts on workers, such as flooding and heatwaves.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
58	Increased flood risk due to climate change A designated Flood Warden who is familiar with the risks and remains vigilant to news reports, Environment Agency flood warnings and water levels of the local waterways.	Embedded	Contractor	• oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	Health and safety plans developed for decommissioning activities will be required to account for potential climate change impacts on workers, such as flooding and heatwaves.			
59	<u>Mitigation colleague discomfort from extreme weather</u> • During periods of extreme temperatures or increased precipitation, construction activities will be managed so that the hottest or wettest/coldest parts of the day are avoided to ensure worker safety, although it is noted that this may not always be possible during the construction phase; and • The risk of overheating/hypothermia will be incorporated into the site risk assessment and the construction of the Proposed Development will comply with all relevant UK legislation related to the work environment including The Health and Safety at Work etc. Act 1974 and The Management of Health and Safety at Work Regulations 1999 (as amended). For example, this may include measures such as ensuring appropriate personal protective equipment (PPE) is worn for the site conditions and adequate water supplies are available to ensure staff stay hydrated during hotter weather.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
Transport and Access				
60	<u>Access Arrangements</u> The location of the proposed vehicle access points has been identified with careful consideration of highway safety	Embedded	Contractor	• oCTMP (DCO Requirement) • oCEMP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	ensuring they are sufficient to accommodate heavy goods vehicles (HGVs) including the provision of appropriate visibility splays. The use of existing access points has been prioritised to minimise the adverse effects associated with the creation of new points of vehicular access, such as the removal of hedgerows. Where an existing access point cannot be used, a new vehicle access has been provided that complies with all relevant highway safety requirements.			• Works Plans (Work No.8 and Work No. 10)
61	Vehicle Routing Construction vehicles will only utilise the permitted access routes as set out in the oCTMP which is secured through the DCO.	Embedded	Contractor	• oCTMP (DCO Requirement)
62	Abnormal Indivisible Loads An abnormal indivisible load (AIL) will be required for the on-site step-up transformers. The vehicle will need to overrun the southern verge opposite the access and a scheme of temporary works will be proposed here to reinforce the grass verge to accommodate the AILs. The routing of AILs will be subject to a detailed route assessment in due course. All temporary works, such as removal of street furniture, will be subject to discussion with relevant authorities and form part of a delivery plan for each abnormal load. Each delivery will be planned in advance, escorted and managed such that any impacts are minimised. Such arrangements will be	Embedded	Contractor	• oCTMP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	procured through standard processes with the relevant planning authority at the appropriate time.			
63	PRoW PRoW HECK/15/1 is located along the northern boundary of the site. Given its location on the periphery of the Energy Park, it is not anticipated that the proposals will materially affect access to the footpath. However, should it be considered necessary by the highway authority appropriate signage and fencing could be erected.	Embedded	Contractor	• oCTMP (DCO Requirement) • oCEMP (DCO Requirement)
64	Traffic Management Delivery vehicles seeking to access and egress the Site could be assisted by the use of banksmen, should it be considered necessary by local highway officers.	Embedded	Contractor	• oCTMP (DCO Requirement) • oCEMP (DCO Requirement)
65	Traffic Management Due to the size of the Energy Park, there will be multiple construction compounds located within the site. The compounds will be of suitable size for an articulated vehicle to enter, turn and exit in a forward gear.	Embedded	Contractor	• oCTMP (DCO Requirement) • oCEMP (DCO Requirement)
66	Parking Provision (Energy Park) A temporary car parking area (including space for minibuses) will be provided on the site within the contractor's compounds.	Embedded	Contractor	• oCTMP (DCO Requirement) • oCEMP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	Parking will therefore be contained within the site and no unnecessary parking will occur on the local highway network. No parking by contractors, visitors or delivery vehicles will be permitted on the access track leading to the site compound during the construction phase. Visitors will be advised of the parking arrangements in advance of travelling to the site.			
67	Storage of Equipment The compounds will also include areas for the storage of plant and equipment.	Embedded	Contractor	• oCTMP (DCO Requirement) • oCEMP (DCO Requirement) • Works Plans (Work No.3 and Work No.7)
68	Traffic Management The arrival and departure of HGVs at the site will be strictly managed by the Site Manager. Drivers will adhere to a delivery schedule and will be required to call ahead to ensure that any emerging HGVs can be held within the construction compound. No HGVs will be permitted to wait on the public highway.	Embedded	Contractor	• oCTMP (DCO Requirement) • oCEMP (DCO Requirement)
69	Traffic Management All vehicles will only be permitted to turn left in and left out of the site access junctions and banksmen can be located at the site access, if necessary, to assist the largest vehicles exiting the site	Embedded	Contractor	• oCTMP (DCO Requirement) • oCEMP (DCO Requirement)
70	Traffic Management	Embedded	Contractor	• oCTMP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	Temporary signage will be erected in the vicinity of the Site during construction phase. Diagram 7301 'WORKS TRAFFIC ONLY' in the Traffic Signs Regulations and General Directions 2016 (TSRGD) will be used to indicate that heavy construction vehicles are turning. Signage will be white text and red background 1050 x 750mm mounted in 'A' frame.			• oCEMP (DCO Requirement)
71	Wheel washing may be required until the internal access tracks are completed. A drive through 'dry' wheel wash will be provided within the Site close to the A17 to ensure that vehicle's wheels are clear of mud and detritus before exiting on to the local highway network.	Embedded	Contractor	• oCTMP (DCO Requirement) • oCEMP (DCO Requirement)
72	Transportation vehicles and waste Any HGVs transporting materials off site will be covered to reduce the propensity of dust and dirt.	Embedded	Contractor	• oCTMP (DCO Requirement) • oCEMP (DCO Requirement) •
73	Transport management The contact details of the contractor and those of the highway department at Lincolnshire County Council will be exchanged before commencement of the works on site.	Embedded	Contractor	• oCTMP (DCO Requirement) • oCEMP (DCO Requirement)
74	Condition Survey A pre-commencement walk-over Condition Survey on the local highway network will be carried out to assess the baseline condition of the adopted highway before construction activities	Embedded	Contractor	• oCTMP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	commence. At this stage it is envisaged that the extent of the survey will be the A17 in the vicinity of the temporary and permanent site access junctions only. The survey will incorporate photographic records as appropriate. The survey will be accompanied by highway officers at Lincolnshire County Council, as required, and a date for this survey will be agreed before construction activities commence. This would be followed by a further Condition Survey with a further photographic record covering the same extents as previously assessed at the end of construction activities, in order to identify and agree any remedial works reasonably attributable to construction activities. A date for this survey will be agreed once construction of the site is complete.			
75	Cable Route Feasibility Report The exact location of the cable route within the A17 highway will be identified by the contractor who will produce a cable route feasibility report prior to commencement.	Embedded	Contractor	• oCTMP (DCO Requirement) • oCEMP (DCO Requirement)
76	Traffic Management (Cable Route) Appropriate street works notices will be secured and suitable traffic management and procedures will be implemented along the cable route to minimise disruption to background traffic on the local highway network.	Embedded	Contractor	• oCTMP (DCO Requirement) • oCEMP (DCO Requirement)
77	Cable Route Construction Compound	Embedded	Contractor	• oCTMP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	All materials and plant will be stored within a dedicated compound adjacent to the cable route. This compound will be relocated along the route of the cable run as the works progress. A designated area will be allocated for the storage of materials, machinery, and vehicles when not in use. Where possible, plant and materials will be delivered to site in the early stages and kept on site for the duration of the works.			• oCEMP (DCO Requirement)
78	Parking Provision (Cable Route) All contractor vehicles will park within the site compound in a designated parking area, available for both visitors and site operatives. Signage will be erected advising / designating where parking is available.	Embedded	Contractor	• oCTMP (DCO Requirement) • oCEMP (DCO Requirement)
79	Decommissioning measures Provision of a Decommissioning Traffic Management Plan (DTMP) will provide the mitigation measures required to reduce the impacts of increased traffic flows including heavy goods vehicles (HGVs) on roads including severance and intimidation associated with increased traffic and abnormal loads. The DTMP will be similar in structure and will contain similar measures to those set out in the CTMP produced prior to decommissioning to manage traffic. The DTMP will also outline mitigation measures for accidents and safety, severance, driver delay, hazardous and dangerous loads, and dust and dirt.	Embedded	Contractor	• oDRP (DCO Requirement)
Air Quality				

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
80	Construction Dusk Risk Assessment A Construction Dusk Risk Assessment is appended to the oCEMP. Mitigation measures are proposed for the following potential impacts: • Demolition – Any activity involved with the removal of an existing structure (or structures), its modification or refurbishment; • Earthworks – Covers the processes of soil-stripping, ground-levelling, excavation and landscaping; • Construction- Any activity involved with the provision of new structure (or structures), its modification or refurbishment; and • Trackout – The transport of dust and dirt from the construction/demolition site onto the public road network where it may be deposited and re-suspended by vehicles using the network. This arises when Heavy Duty Vehicles (HDVs) leave the construction/demolition site with dusty materials which may then spill onto the road, and/or when HDVs transfer dust and dirt onto the road after having travelled over muddy ground on site. Full details of the management measures are within the oCEMP, secured by the DCO.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
81	Good Practice Construction Measures to reduce impact of dust emissions on sensitive receptors. Mitigation measures as detailed in the Institute of Air Quality Management (IAQM) guidance will be implemented. This could	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	include the following which will be managed by the Construction Contractor: 1. Communications; 2. Site Management; 3. Monitoring; 4. Preparing and Maintaining the Site; 5. Operating Vehicles/ Machinery and Sustainable Travel; 6. Operations; 7. Waste Management; 8. Demolition (including earthworks); 9. Construction (including trackout). Details of the management measures are within the oCEMP, secured by the DCO.			
82	Good Practice Construction Measures All Non-Road Mobile Machinery (NRMM) will adhere to European regulations (EU 2016/1628) demonstrating compliance with emission limits. In order to manage the impact on sensitive receptors. The implementation of measures should be managed by the Construction Contractor.	Embedded	Contractor	• oCEMP (DCO Requirement)
Land Use and Agriculture				
83	Outline Soil Management Plan (oCEMP appendix) Construction of the Energy Park will require vehicular movement over land (trafficking) for construction, and in places the movement of soils (to create fixed bases, tracks and to trench-in cables). The oSMP sets out:	Embedded	Contractor	• oCEMP (DCO Requirement) • oSMP (DCO Requirement, within the oCEMP)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	• a description of the soil types and their resilience to being trafficked or moved; • an outline description of proposed access routes and details of how access will be managed to minimise impacts on soils; • a description of works to install panels and how soil damage will be minimised and ameliorated; and • a methodology for monitoring soil condition, and criteria against which compliance will be assessed.			
84	Operational Land Management- Soil Compaction Any areas which have suffered high soil compaction, for instance due to heavy machinery being deployed, additional remedial works may be required to ensure the soil structure is suitable for subsequent sowing. Trenching work is needed to install cables within the Energy Park. So far as practicable these works will be undertaken when the soils are dry, as this will minimise disturbance to the soil structure and will reduce the need for mechanical husbandry after backfilling.	Embedded	Contractor or Site Manager	• oLEMP (DCO Requirement)
Glint and Glare				
85	Sensitive Receptors- Glint and Glare Minimisation Screening that is proposed surrounding the Energy Park site will reduce visibility to reflective surfaces. Any onsite screening to be left in place until after the rest of the Order limits has been decommissioned.	Embedded	Contractor	• Detailed design (DCO Requirement) • oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	Sections of the panels and legs to be added/ removed during construction and decommissioning phase sequentially rather than all legs being deployed in advance of panels being mounted. This is to avoid having excessive amounts of exposed steel in situ that may cause reflections. That way the panels that have already been installed will help screen visibility to the sections of panels that are being installed. Panels and other infrastructure to be transported onsite only when ready to be deployed/ decommissioned to avoid potential of having reflective surfaces visible in the environment for prolonged.			
Miscellaneous Issues (Major Accidents and Disasters)				
86	Energy Storage Systems (Risk of Fire) An outline Energy Storage Safety Management Plan (oESSMP) has been submitted as part of the DCO application and sets out the measures proposed to mitigate and manage all foreseeable hazards associated with the Energy Storage Systems, within the relevant regulatory frameworks. A ESSMP will be prepared in accordance with the oESSMP prior to commencement of the ESS. Full details of the management measures are within the oESSMP, secured by the DCO.	Embedded	Contractor	• oESSMP (DCO Requirement) • oCEMP (DCO Requirement) • oDRP (DCO Requirement)
87	Health and Safety of Workers	Embedded	Contractor	• oCEMP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	To minimise risks to health and safety 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 induction.			• oDRP (DCO Requirement)
88	During construction, all works will be subject to relevant risk assessments and will be required and produced by the contractor prior to construction minimising the risk of major accidents and disasters on site.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
Miscellaneous Issues (Waste)				
89	Waste Minimisation Measures The construction contractor will manage the construction phase and waste generation and take into account 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 will include, where reasonably practical, working towards a cut and fill balance for excavations; segregation of materials onsite for appropriate re-use, recycling, and recovery, with landfill as a last resort.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
90	Waste Minimisation Measures The construction contractor will prepare and implement a Construction Resource Management Plan (CRMP) as part of	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	the CEMP(s) which will set out targets for fuel, waste, and energy consumption. As part of the CRMP, the construction contractor will segregate construction waste to be re-used and recycled where reasonably practicable. All soil to be reused onsite or disposed of offsite will be appropriately characterised by the construction contractor.			
91	All waste transported offsite will be delivered to the appropriately licensed receivers of such materials.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
92	Good Practice Measures to Reduce Waste Further measures to minimise and reduce waste during construction and decommissioning phase as detailed in the oCEMP include: • Adhering to the core waste management principles of prevention, reuse, recycle, recover and disposal as defined in the 'Waste Hierarchy'; • Disposal activities will also be carried out in accordance with the relevant Pollution Prevention Guidelines (or any relevant successive guidance in place) in order to ensure compliance with current waste legislation. • Hazardous Waste to be carefully storage and management measures; • Waste from Welfare and Domestic Facilities management measures.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
93	Reducing Waste on the surrounding environment	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	Off-site pre-fabrication, where reasonably practicable, including the use of pre-fabricated structural elements, cladding units, mechanical and electrical risers and packaged plant rooms. Pre-fabrication could be utilised for the office/warehouses and control rooms associated with the Onsite Substation.			
94	Reducing Waste on the surrounding environment Burning of waste or unwanted materials will not be permitted on-site.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
95	Reducing Waste on the surrounding environment 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.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
96	Reducing Waste on the surrounding environment Materials requiring removal from the Order limits will 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. An audit and careful checks will be undertaken to ensure that all carriers and facilities will be licensed, and that the appropriate permits and transfer notes are in place prior to removal of waste. Further information on these will be included within the Construction Resource Management Plan (secured in the oCEMP).	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
97	Reducing Waste on the surrounding environment Prior to construction start, suitable recycling and landfill facilities with sufficient capacity to receive the quantities of construction waste expected will be identified.	Embedded	Contractor	• oCEMP (DCO Requirement) • oDRP (DCO Requirement)
Miscellaneous Issues (Telecommunications, Television Reception and Utilities)				
98	Measures to avoid buried utilities during construction • Locating the Proposed Development outside of utilities' protected zones; • The use of ground penetrating radar before excavation to identify any unknown utilities; • Consultation and agreement of methods prior to works commencing. The protective provisions to the DCO make provision for consultation and/or agreement in relation to works with the potential to impact utilities prior to works commencing; and • Infrastructure that crosses the Proposed Development has been mapped and avoided through the design.	Embedded	Applicant Contractor	• Detailed design approval (DCO Requirement) • oCEMP (DCO Requirement)
Miscellaneous Issues (Electric, magnetic and electromagnetic fields)				
99	Measures to reduced EMFs. • Cabling within the Order limits is proposed to be buried underground, thereby reducing Electromagnetic Fields (EMF) and the need for surface cable protection.	Embedded	Applicant Contractor	• Detailed design approval (DCO Requirement) • oCEMP (DCO Requirement)

Reference	Mitigation Measure Commitment	Type of Mitigation	Responsible Party	Where Secured
	Underground cables produce no external electrical field. Underground cables at voltages up to and including 132kV are not capable of exceeding International Commission on Non-Ionizing Radiation Protection (ICNIRP) exposure guidelines1 for EMFs. • During the construction phase, the 400kV underground cable will not produce any significant EMFs until the Proposed Development is generating electricity when it is operational. The 400kV underground cable will be buried at a minimum depth of 1m and will not exceed (ICNIRP) exposure guidelines for EMFs.			

[1] ICNIRP (1998) ICNIRP Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic and Electromagnetic Fields (up to 300 GHz).