NORTH LINCOLNSHIRE GREEN ENERGY PARK

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North Lincolnshire Green Energy Park

Volume 6

Environmental Statement

6.2.19 Chapter 19: Mitigation

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Acronyms and Abbreviations

Name	Description
AGI	Above Ground Installation
AMP	Asbestos Management Plan
CDM	Construction (Design and Management)
CEMP	Construction Environmental Management Plan
CL:AIRE	Contaminated Land: Applications In Real Environments
CO2	Carbon Dioxide
CoCP	Code of Construction Practice
COMAH	Control of Major Accident Hazards
CoPA	Control of Pollution Act
CTMP	Construction Traffic Management Plan
CWTP	Construction Workers Travel Plan
DCO	Development Consent Order
DHPWN	District Heat and Private Wire Network
DMP	Dust Management Plan
EA	Environment Agency
ECoW	Ecological Clerk of Works
ELV	Emission Limit Values
ERF	Energy Recovery Facility
ES	Environmental Statement
EWC	European Waste Catalogue

GCN	Great Crested Newt
ha	hectare
H&S	Health and Safety
INNS	Invasive Non-Native Species
km	kilometre
LBMMP	Landscape and Biodiversity Management and Monitoring Plan
LNR	Local Nature Reserve
LoC	Loss of Containment
LWS	Local Wildlife Sites
m	metre
MAH	Major Accident Hazards
mm	millimetre
NLC	North Lincolnshire Council
NLGEP	North Lincolnshire Green Energy Park
NSR	Noise Sensitive Receptor
PRoWs	Public Right of Ways
RAF	Royal Air Force
SMP	Soil Management Plan
SuDS	Sustainable Drainage Systems
CTMP	Construction Traffic Management Plan
WMP	Waste Management Plan

1. INTRODUCTION

1.1.1.1 In order to demonstrate that all necessary controls and mitigation measures have been identified and there is a mechanism to secure them, a tabulated summary of mitigation measures for the Project has been prepared (see Table 1). The mitigation summary table:

- provides an audit trail of the controls and mitigation measures on which the Environmental Statement (ES) and related assessment documents rely to avoid, minimise, reduce and/or offset significant effects of the project; and
- sets out the way in which the measures have been, or will be, translated into clear and enforceable controls, either via Development Consent Order (DCO) Requirements or other consent regimes.

1.1.1.2 Table 1 includes a topic-by-topic summary of the mitigation measures identified. Full details can be found in the respective ES chapters. Appropriate provisions to secure these measures have been made in the draft DCO **(Document Reference 2.1)**, meaning that any consent granted for the Project will include mechanisms for the implementation of suitable mitigation measures for significant environmental effects.

2. OVERALL DESIGN CONSIDERATIONS

2.1.1.1 Many elements of mitigation are integral to the design and are secured by the Design Principles and Codes **(Document Reference 5.12)**, and the Vertical Parameter Plans (**Document Reference 4.18**). It is therefore important to note that, save for the permitted preliminary works, no part of the authorised Project will commence until details of the following have been submitted to and approved by North Lincolnshire Council (NLC):

- the siting design, external appearance and dimensions of all buildings and structures which make up the Project, and which are to be retained following commissioning;
- the colours, materials and surface finishes of all new permanent buildings and structures referred to above;
- the permanent circulation roads, vehicle parking and hardstanding; and
- ground levels and heights of all permanent buildings and structures.

2.1.1.2 The detailed design for the above matters will be in accordance with the Design Principles and Codes and the Vertical Parameter Plans.

3. CONSTRUCTION PHASE MITIGATION MEASURES

3.1 The Construction Environmental Management Plan

3.1.1.1 In advance of construction, a detailed Construction Environmental Management Plan (CEMP) will be prepared by the contractor for approval by NLC and relevant statutory consultees. The main purpose of the CEMP will be:

- to provide a mechanism for ensuring that measures to mitigate potentially adverse environmental social and economic effects are implemented;
- to ensure that standards of good construction practice are adopted throughout the construction of the Project;
- to provide a framework for mitigating impacts that may be unforeseen or unidentified until construction is underway;
- to provide assurance to third parties that their requirements and the commitments made in the ES with respect to environmental and social performance will be met; and
- to provide a framework for compliance auditing and inspection to enable North Lincolnshire Green Energy Park Limited (the Applicant) to be assured that its aims with respect to environmental performance are being met.

3.1.1.2 The CEMP will be developed as the Project proceeds through the detailed design and pre-construction phases, in conjunction with the appointed construction contractor, and in consultation with relevant bodies including NLC, Environment Agency (EA) and Natural England (NE). The CEMP will reflect any conditions, requirements and obligations contained in the consent, including those set out in the DCO submitted as part of this application. The construction contractor and all subcontractors will be required to comply with the measures and procedures contained in the CEMP. A Code of Construction Practice (CoCP) which provides the framework for the CEMP is provided in Annex 7 (**Document Reference 6.3.7**) together with various subsidiary plans in outline:

- Dust Management Plan;
- Remediation Strategy;
- Spill Response Plan;
- Asbestos Management Plan;
- Construction Flood Management Plan;
- Construction Waste Management Plan;
- Protected Species Management Plan;
- Invasive Non-Native Species (INNS) Management Plan; and
- Soil Management Plan.

3.1.1.3 The CEMP will also address any specific mitigation requirements that result from obtaining other consents and licences (see Consents and Licences Document, **Document Reference 5.8**) as required.

3.2 CEMP Phasing and Review

3.2.1.1 The Project will be delivered in a number of phases and the proposed phasing must be submitted to NLC for approval before development commences. The permitted preliminary development works and each phase, (see also CoCP, **Document Reference 6.3.7**), will be covered by a bespoke CEMP developed to a common high standard and each one will be submitted to NLC for review and approval before development of any part of the relevant works commence.

3.2.1.2 The Applicant will undertake regular reviews of the Project and emerging standards, guidance, and legislation to ensure that good industry practice is being applied at all times in the CEMP. The review process will be iterative and ongoing, so that new information is identified at an early stage and incorporated into any updated versions of the CEMP (and agreed with NLC).

3.3 Other Construction Phase Plans

3.3.1.1 In addition to the CEMP, construction phase mitigation measures will also be secured through the following means.

- The Outline Construction Logistics Plan (CLP) will be developed in detail to include a Construction Traffic Management Plan and a Construction Workers Travel Plan, all to be produced in accordance with the principles set out in the Outline CLP **(Document Reference 6.2.13, Appendix D).**
- The Indicative Landscape and Biodiversity Plan **(Document Reference 4.10)**, comprising a set of A1 drawings at 1:2,500 scale that provide an overview of the measures that will be implemented during the construction phase to provide landscaping mitigation, mitigation for habitat losses, implementing habitat enhancements and providing biodiversity net gain measures.

4. OPERATION PHASE MITIGATION MEASURES

4.1.1.1 An Environmental Permit (the EP) will be required to operate the Energy Recovery Facility (ERF) and related aspects of the Project such as the carbon capture facility. The EP will have its own management and monitoring requirements set by the Environment Agency and will require an Environmental Management System (EMS) to be in place (most likely to ISO14001 equivalent, if not actually certified). The EP would require a 'Technically Competent' person to be appointed to oversee the permit. Most environmental mitigation relating to specific aspects of operation will therefore be secured through the EP.

4.1.1.2 Some aspects of the operating Project may not fall within the remit of the EP, and these will be secured through other mechanisms as follows.

- All environmental pollution activities not covered by the EP (e.g. noise, surface water discharges, solid waste management) will be addressed in an Operational Environmental Management Plan (OEMP). This plan will be developed in parallel with the aforementioned EMS. The scope and content of the OEMP is outlined in Annex 8 **(Document Reference 6.3.8)**.
- A Landscape and Biodiversity Management and Monitoring Plan (LBMMP) will be developed in accordance with the principles set out in the Outline LBMMP **(Document Reference 5.7)**. The LBMMP will secure delivery during operation, through monitoring, management and maintenance measures, of the landscaping provisions and biodiversity mitigation and enhancements (including those provided in the context of 'biodiversity net gain').
- A Flood Management Plan, which includes an Evacuation Route Plan and Flood Resilience Implementation Plan, to protect workforce, neighbours and built Project assets, will be developed in accordance with the principles set out in the Flood Risk Assessment (FRA) (Annex 3 to the ES, **Document Reference 6.3.3)**.
- A Travel Plan will be developed, in accordance with principles set out in the Framework Travel Plan **(Document Reference 6.2.13,** Appendix C), to address sustainable travel issues and management measures to mitigate Project transport impacts. Sustainable travel issues addressed in the Travel Plan will include measures proposed to improve access by public transport, walking and cycling, and to reduce the need for parking.
- Permanent surface water drainage and foul water drainage systems will be designed in detail in accordance with the principles set out in the Indicative Surface Water Drainage Plan **(Document Reference 4.16)**.
- A scheme for all permanent external lighting to be installed for the Energy Park and the railway works will be designed in detail and submitted to and approved by NLC. The design of the external lighting will be in accordance with the principles of the Indicative Lighting Strategy (Annex 4 to the ES, **Document Reference 6.3.4)** and include measures to minimise and mitigate any artificial light emissions during the operation of the Project.

5. SUMMARY OF MITIGATION MEASURES AND SECURING MECHANISMS

5.1.1.1 Table 1 provides a summary of the mitigation measures described in the ES and the way in which they are secured through the DCO (or under other relevant legislation). The measures are set out topic by topic and the individual topic chapters can be referred to if additional detail or more context is required (section number referencing is provided in the table). Reference is also made to the Project stage (design, construction, operation etc) that the measure most relates to and the party responsible for implementing the measure. Lastly the mechanisms for securing the measures are referenced in terms of management plans and similar that are the subject of DCO requirements. These latter fall into two categories: material that is included as part of the DCO submission (typically in outline) and detailed material that is required to be produced and suitably approved at a later date (e.g. pre-construction).

5.1.1.2 It should be noted that there are a number of references in Table 1 to biodiversity enhancements or habitat creation. This refers to planned measures which will contribute to an overall net gain in biodiversity units. It has been informed by an assessment of net gain using the Defra Biodiversity Metric 3.0, and includes measures that aim to increase the extent of habitats (through habitat creation) and to improve the condition of both retained and new areas of habitat. The measures will be applied to the Application Land, as shown in Appendix I of Chapter 10, Ecology and Nature Conservation (**Document Reference 6.2.10**).

5.1.1.3 Table 2 provides a list of the documents that secure the mitigation relied upon in Table 1 and how they are secured through the DCO requirements or other regimes (e.g. environmental permitting).

Glossary for Table 1

Name	Description
CoCP	Code of Construction Practice
CRP	Community Relations Plan
CEMP	Construction Environmental Management Plan
CLP	Construction Logistics Plan
DPCD	Design Principles and Codes Document
DMP	Dust Management Plan
EP	Environmental Permit
ILBP	Indicative Landscape and Biodiversity Plan
INNS	Invasive Non-native Species
LBMMP	Landscape and Biodiversity Management and Monitoring Plan
OEMP	Operational Environmental Management Plan
PP	Parameter Plans
PSMP	Protected Species Management Plan
SMP	Soil Management Plan
SRP	Spill Response Plan
WMP	Waste Management Plan
WSI	Written Scheme of Investigation

Table 1. Summary of Mitigation Measures and Securing Mechanisms

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Chapter 5 – Air Quality						
Section 7.2, Paragraph 7.2.1.1	Air quality	The ERF is designed with Best Available Technique abatement systems for reducing emissions to air.	Design and Operation	NLGEPL	DPCD, EP DCO Requirement 3	5.12 / 2.1
Section 7.2, Paragraph 7.2.1.1	Air quality combustion products	The stack heights for the ERF, backup generator and boilers are designed to disperse emissions sufficiently to avoid unacceptable impacts on air quality at sensitive human and ecological receptors.	Design and Operation	NLGEPL	DPCD, EP DCO Requirement 3	5.12 / 2.1
Section 7.2, Paragraph 7.2.1.1	Fugitive emissions - odour	No outdoor storage of waste.	Design and Operation	NLGEPL	DPCD, EP/OEMP DCO Requirements 3 And 4	5.12 / 6.3.8 / 2.1
Section 7.2, Paragraph 7.2.1.1	Fugitive emissions - odour	Rail: Deliveries of waste will be in sealed containers. Upon delivery, the containers will be taken to the tipping hall and emptied. During this process, full containers will not be stored on site.	Operation	NLGEPL	DPCD, EP/OEMP DCO Requirements 3 And 4	5.12 / 6.3.8 / 2.1
Section 7.2, Paragraph 7.2.1.1	Fugitive emissions - odour	Ship: Deliveries of waste will be in sealed containers. Upon delivery, the containers will be taken to the tipping hall and emptied. During this process, full containers will not be stored on site.	Operation	NLGEPL	DPCD, EP/OEMP DCO Requirements 3 And 4	5.12 / 6.3.8 / 2.1
Section 7.2, Paragraph 7.2.1.1	Fugitive emissions - odour	Road: Baled waste will be delivered in curtain sided trucks. Waste will be tipped directly in the tipping hall and will not be stored on site.	Operation	NLGEPL	DPCD, EP/OEMP DCO Requirements 3 And 4	5.12 / 6.3.8 / 2.1
Section 7.2, Paragraph 7.2.1.1	Fugitive emissions - odour	The tipping hall will be kept under negative pressure and air will be drawn through the process thereby destroying odours.	Design and Operation	NLGEPL	DPCD, EP/OEMP DCO Requirements 3 And 4	5.12 / 6.3.8 / 2.1
Section 7.2, Paragraph 7.2.1.1	Fugitive emissions - odour	Refuse Derived Fuel (RDF) deliveries will be containerised, wrapped or baled, minimising odour during handling.	Operation	NLGEPL	DPCD, EP/OEMP DCO Requirements 3 And 4	5.12 / 6.3.8 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.2, Paragraph 7.2.1.1	Fugitive emissions - odour	RDF will be stored under cover under negative pressure, minimising odour generation and escape.	Operation	NLGEPL	DPCD, EP/OEMP DCO Requirements 3 And 4	5.12 / 6.3.8 / 2.1
Section 7.2, Paragraph 7.2.1.1	Fugitive emissions - odour	At any one time, only one line of three will be off-line for maintenance, meaning that RDF will not be stored for long periods on site.	Operation	NLGEPL	DPCD, EP/OEMP DCO Requirements 3 And 4	5.12 / 6.3.8 / 2.1
Section 7.2, Paragraph 7.2.1.1	Fugitive emissions - dust	The handling of bottom ash and production of concrete will be undertaken in an enclosed environment with the buildings under negative pressure, minimising dust generation and escape.	Operation	NLGEPL	DPCD, EP/OEMP DCO Requirements 3 And 4	5.12 / 6.3.8 / 2.1
Section 7.2, Paragraph 7.2.1.1	Fugitive emissions - dust	Flue Gas Residue will be handled in an enclosed process minimising the opportunity for dust generation and escape.	Operation	NLGEPL	DPCD, EP/OEMP DCO Requirements 3 And 4	5.12 / 6.3.8 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Display the name and contact details of person(s) accountable for air quality and dust issues on the site boundary. This may be the environment manager/engineer or the site manager.	Construction	Construction Contractor	CEMP (DMP), (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Display the head or regional office contact nformation.	Construction	Construction Contractor	CEMP (DMP), CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Develop and implement a DMP, which may include measures to control other emissions, for approval by the NLC. The level of detail will depend on the risk and will include as a minimum the highly recommended measures. The measures will be appropriate for the site. The DMP will include monitoring of dust deposition, dust flux, real time PM_{10} continuous monitoring and/or visual nspections.	Construction	Construction Contractor	CEMP (DMP), (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Record all dust and air quality complaints, identify cause(s), take appropriate measures to reduce	Construction	Construction Contractor	CEMP (DMP), (see also CoCP)	6.3.7 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		emissions in a timely manner, and record the measures taken.			DCO Requirement 4	
Section 7.3, Paragraph 7.3.1.1	Construction dust	Make the complaints log available to NLC when asked.	Construction	Construction Contractor	CEMP (CRP, also see CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust and other emissions	Record any exceptional incidents that cause dust and/or gaseous emissions, either on- or offsite, and the action taken to resolve the situation in the ogbook.	Construction	Construction Contractor	CEMP (DMP), (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Undertake daily on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to NLC when asked. This will nclude regular dust soiling checks of surfaces such as street furniture, cars, and windowsills within 100 m of site boundary, with cleaning to be provided if necessary.	Construction	Construction Contractor	CEMP (DMP), (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Carry out regular site inspections to monitor compliance with the DMP, record inspection results, and make an inspection log available to NLC when asked.	Construction	Construction Contractor	CEMP (DMP), (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust and other emissions	Increase the frequency of site inspections by the person accountable for air quality and dust issues onsite when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions.	Construction	Construction Contractor	CEMP (DMP), (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust and other emissions	Plan site layout so that machinery and dust causing activities are located away from receptors, as far as s possible.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Erect solid screens or barriers around dusty activities or the site boundary that are at least as high as any stockpiles on site.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.3, Paragraph 7.3.1.1	Construction dust	Fully enclose site or specific operations where there s a high potential for dust production and the site is active for an extensive period.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Keep site fencing, barriers and scaffolding clean using wet methods.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Remove materials that have a potential to produce dust from site as soon as possible, unless being re-used on site. If they are being re-used on-site cover as described below.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Cover, seed, or fence stockpiles to prevent wind whipping.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Other construction emissions	Ensure all vehicles switch off engines when stationary - no idling vehicles.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Other construction emissions	Avoid the use of diesel- or petrol-powered generators and use mains electricity, hydrogen or battery powered equipment where practicable.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Dust and other construction emissions	Impose and signpost a maximum-speed-limit of 15 mph on surfaced and 10 mph on unsurfaced haul roads and work areas (if long haul routes are required these speeds may be increased with suitable additional control measures provided, subject to the approval of the nominated undertaker and with the agreement of NLC, where appropriate).	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Only use cutting, grinding, or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.3, Paragraph 7.3.1.1	Construction dust	Ensure an adequate water supply on the site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible and appropriate.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Use enclosed chutes and conveyors and covered skips.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Ensure equipment is readily available onsite to clean any dry spillages and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Other construction emissions	Avoid bonfires and burning of waste materials.	General Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Soft strip inside buildings before demolition (retaining walls and windows in the rest of the building where possible, to provide a screen against dust).	Construction - Demolition	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Ensure effective water suppression is used during demolition operations. In addition, high volume water suppression systems, manually controlled, can produce fine water droplets that effectively bring the dust particles to the ground.	Construction - Demolition	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Dust and other construction emissions	Avoid explosive blasting, using appropriate manual or mechanical alternatives.	Construction - Demolition	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.3, Paragraph 7.3.1.1	Dust and other construction emissions	Bag and remove any biological debris or damp down such material before demolition.	Construction - Demolition	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable.	Construction	Construction Contractor	CEMP (DMP, SMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Use Hessian, mulches or tackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable.	Construction	Construction Contractor	CEMP (DMP, SMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Only remove the cover in small areas during work and not all at once.	Construction	Construction Contractor	CEMP (DMP, SMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Avoid scabbling (roughening of concrete surfaces) if possible.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	For smaller supplies of fine powder materials, ensure bags are sealed after use and stored appropriately to prevent dust.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.3, Paragraph 7.3.1.1	Construction dust	Use water-assisted dust sweeper(s) on the access and local roads, to remove, as necessary, any material tracked out of the site. This may require the sweeper being continuously in use.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Avoid dry sweeping of large areas.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust	Record all inspections of haul routes and any subsequent action in a site logbook.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust and dirt track out	Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to eaving the site where reasonably practicable).	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust and dirt track out	Ensure there is an adequate area of hard surfaced road between the wheel wash facility and the site exit, wherever site size and layout permits.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.1	Construction dust and dirt track out	Access gates to be located at least 10 m from receptors where possible.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Chapter 6 – Climate						
Section 7, Paragraph 7.1.1.1	Energy efficiency	An efficient combined heat and power design for the ERF to recover electricity and heat from the combustion of the RDF. This greatly increases the overall efficiency of energy recovery from the ERF and maximises the displacement of energy produced from fossil fuels.	Design, Operation	NLGEPL	DPCD, EP DCO Requirement 3	5.12 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7, Paragraph 7.1.1.1	Greenhouse gas (GHG) emissions	Recovery of ferrous and non-ferrous metals from the bottom ash will avoid GHG emissions from the extraction and production of virgin metals.	Design, Operation	NLGEPL	DPCD, EP DCO Requirement 3	5.12 / 2.1
Section 7, Paragraph 7.1.1.1	GHG emissions	Materials recovered from the bottom ash and FGTr as substitutes for virgin aggregates will be used to produce concrete blocks, avoiding the GHG emissions from the extraction of virgin aggregates.	Design, Operation	NLGEPL	DPCD, EP DCO Requirement 3	5.12 / 2.1
Section 7, Paragraph 7.1.1.1	GHG emissions	Carbon capture technology will be used on the Project to capture and utilise up to 7.5% of CO_2 from the ERF flue gases. Subsequently, this will either be mineralised as carbonates within aggregates or sent for utilisation off-site. This captured CO_2 represents a reduction in the total net GHG emissions from the Project. The Department for Business, Energy and Industrial Strategy (BEIS) award to the East Coast Cluster for carbon storage could increase the carbon capture up to 90% of the emitted CO_2 once the pipeline is consented and commissioned. The proposed pipeline passes within the redline boundary of the Project.	Design, Operation	NLGEPL	DPCD, EP DCO Requirement 3	5.12 / 2.1
Section 7, Paragraph 7.1.1.1	GHG emissions	The development and use of rail and ship transportation to bring RDF, transport captured CO_2 and other materials to and from the site offers the potential for reductions in GHG emissions compared to transport by road.	Operation	NLGEPL	DPCD, EP DCO Requirement 3	5.12 / 2.1
Chapter 7 – Noise						
Section 7.2, Paragraph 7.2.1.1	Construction noise pollution and vibration	Best Practicable Means as defined by the Control of Pollution Act 1974 (CoPA) and Environmental Protection Act 1990 (EPA), will be applied during construction activities to minimise noise (including vibration) at neighbouring residential properties and other sensitive receptors.	Construction	Construction Contractor	CEMP, see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.2, Paragraph 7.2.1.1	Construction noise pollution and vibration	As part of Best Practicable Means, mitigation measures will be applied in the following order: ▪ noise and vibration control at source: for example, the selection of quiet and low vibration	Construction	Construction Contractor	CEMP, see also CoCP DCO Requirement 4	6.3.7 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		equipment, review of construction methodology to consider quieter methods, location of equipment on-site, control of working hours, the provision of acoustic enclosures and the use of less intrusive alarms, such as broadband vehicle reversing warnings; ▪ screening: for example, local screening of equipment or perimeter hoarding or the use of temporary stockpiles; and ▪ where, despite the implementation of BPM, the noise exposure exceeds the criteria defined in the CEMP, options for suitable receptor-based mitigation will be reviewed and offered at qualifying properties.				
Section 7.2, Paragraph 7.2.1.2	Construction noise pollution and vibration	Lead contractors will develop and submit a CEMP for agreement with the local planning authority. The CEMP will set out Best Practicable Means measures to minimise construction noise and vibration, ncluding control of working hours, and provide a further assessment of construction noise and vibration. The approved measures will be set out in detail by the Contractor in the CEMP.	Construction	Construction Contractor	CEMP, see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.2, Paragraph 7.2.1.3	Construction noise pollution	Contractors will undertake and report monitoring as s necessary to assure and demonstrate compliance with all noise and vibration commitments. Monitoring data will be provided regularly to, and be reviewed by the Applicant and made available to NLC.	Construction	Construction Contractor	CEMP, see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.2, Section 7.2.1.6	Traffic noise	Construction traffic routes will be chosen to avoid routing lorries through villages and past NSRs on minor roads as far as possible.	Construction	Construction Contractor	Traffic Management Plan (see also Outline CLP) DCO Requirement 10	6.2.13 Appendix D / 2.1
Section 7.3, Section 7.3.1.1	Operational noise pollution	A noise management plan will be formulated in order to keep delivery noise (e.g. use of tonal reversing	Operation	NLGEPL	OEMP	6.3.8 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		alarms, doors opening/closing, use of at-source mitigation such as exhaust silencers and enclosed engine compartments) to an acceptable minimum. .			DCO Requirement 4	
9.2.1.3	Operational noise pollution	A noise-monitoring and management programme will be developed and agreed with NLC, and will be mplemented before the development becomes operational. The purpose of the programme will be to demonstrate noise from the operation of the Project is no higher than reported in the ES and where practicable to reduce noise levels below those that have been predicted. This noise monitoring will nclude: ▪ measurements of candidate unloading equipment during procurement including during loading/unloading cycles to ensure it does not lead to higher noise levels than assumed in the ES; ▪ review of test data for fixed equipment and building elements; ▪ identification of equipment with potentially distinctive noise characteristics from equipment and consideration of alternatives/mitigation based on test data and commissioning measurements; ▪ regular noise monitoring in Amcotts to establish any activities which result in noise levels above those that are predicted in the ES, including attended noise measurements where it is necessary to identify the contribution of loading and unloading activity noise levels; ▪ investigation of noise complaints and monitoring as required to identify potential causes and solutions; and ▪ regular visual monitoring/audit of equipment to identify if noise control equipment (covers/louvres/silencers etc) are in good	Operation	NLGEPL	OEMP DCO Requirement 4	6.3.8 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		condition and are being used appropriately to minimise noise levels.				
Chapter 8 – Ground Conditions, Contamination and Hydrogeology						
Section 7.2, Paragraph 7.2.1.1	Environmental pollution (soil and water)	Prevent potential pollution of the environment occurring through disturbance of land contamination or through the introduction of potential contaminative materials during construction.	Construction	Construction Contractor	CEMP (Remediation Strategy) (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7.2, Paragraph 7.2.1.2	Environmental pollution (ground water)	When piling, avoid creating flow paths between potentially contaminated soils and/or groundwater in underlying strata.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7.2, Paragraph 7.2.1.3	Workforce safety	Compliance with CDM Regulations and other H&S egislation will apply throughout any works on side, ncluding any pre-development works.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7.2. Paragraph 7.2.1.3	Environmental contamination	If contamination occurs on site that had not previously been identified, suitable mitigation measures will be put in place i.e., additional site nvestigation, regulatory dialogue, and remediation measures,	Construction	Construction Contractor	CEMP (Remediation Strategy) (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7.2, Paragraph 7.2.1.3	Construction dust	Any impacted material, if stored onsite, will be covered to prevent mobilisation of contamination due to infiltration, and to prevent the release of windborne particles or vapour.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.2, Paragraph 7.2.1.3 & Paragraph 7.3.1.1	Environmental pollution (soil and water)	Materials used, including chemicals, fuels, and oils, will be stored using secondary containment appropriate to the level of risk, to prevent accidental spills/releases to ground.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7.2, Paragraph 7.2.1.3 & Paragraph 7.3.1.1	Environmental pollution (soil and water)	Materials used, including chemicals, fuels, and oils, will be stored using secondary containment appropriate to the level of risk, to prevent accidental spills/releases to ground.	Operation	NLGEPL	OEMP DCO Requirement 4	6.3.8 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.2, Paragraph 7.2.1.3	Environmental pollution (soil and water)	A spill response plan will be in place to minimise mpacts to soils, groundwater, or surface water from accidental spills/releases.	Construction	Construction Contractor	CEMP (SRP) (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7.2, Paragraph 7.2.1.3	Water quality	The water environment will be protected through the management of earthworks and materials arising, particularly in areas of potential contamination	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7.2, Paragraph 7.2.1.6	Soil resource use and waste management	Maximum management of waste disposal, including surplus soil, will be used to maximise environmental and development benefits by using surplus material and reduce effects of disposal.	Construction	Construction Contractor	CEMP (Construction WMP), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.2, Paragraph 7.2.1.7	Workforce and public health and safety	An asbestos management plan will be produced to nform appropriate precautions to be taken if materials containing asbestos are encountered.	Construction	Construction Contractor	CEMP (Asbestos Management Plan), see also CoCP DCO Requirement 4	6.3.7 / 2.1
Section 7.3, Paragraph 7.3.1.2	Environmental contamination (soil and water)	The design of the Project includes measures to contain and control any releases of contaminants to ground and surface and foul drainage network.	Operation	NLGEPL	Indicative Surface Water Drainage Plan DCO Requirements 8 and 9	6.3.5 / 2.1
Section 7.3, Paragraph 7.3.1.4	Environmental contamination	Maintenance and operation of the Project will be in accordance with environmental legislation and good practice.	Operation	NLGEPL	DPCD, EP DCO Requirement 3	5.12 / 2.1
Section 7.3, Paragraph 7.3.1.5	Ground gas risk to buildings	Ground gas monitoring is currently ongoing and will continue to the construction phase since the first round of ground gas monitoring indicated that the area MW1 is classified as Characteristic Scenario 3 and may require protective measures in the design of any buildings in the area. Site evaluation and risk assessment processes and the development of protective measures would be in accordance with BS8485:2015+A1:2019.	Construction (and design)	NLGEPL, Construction Contractor	CEMP, see also CoCP DCO Requirement 4	5.12 / 2.1
Section 7.3, Paragraph 7.3.1.5	Ground gas risk to buildings	In the event that ground gas protective measures are required in the design of any buildings, operational	Operation	NLGEPL	OEMP DCO Requirement 4	5.12 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		monitoring of ground gas would be required as part of system verification.				
Chapter 9 – Water Resources						
Section 7, Paragraph 7.1.1.1	Flood risk	The layout of the Project has been driven by hydraulic modelling to identify the best position to displace flood water, tidal surge and flood defence breach water flows to other areas as much as reasonably possible. The new access road forms an ntegral part of flood control using the newly established wetland area for flood retention.	Design	NLGEPL	DPCD, PP, Embedded Works Plans	5.12 / 4.18 / 4.4
Section 7, Paragraph 7.1.1.1	Flood risk	Flood bunds or flood walls included within the Project to prevent the displacement of flood water to adjacent sites.	Design	NLGEPL	DPCD, PP, Embedded Works Plans	5.12 / 4.18 / 4.4
Section 8, Paragraph 8.2.1.10	Flood risk to workforce and construction assets	A flood management plan will be prepared by the contractor and agreed with the Environment Agency. The flood management plan will be designed to reduce the potential consequence from a flood occurring during the construction phase.	Construction	Construction Contractor	CEMP (Flood Management Plan, see also CoCP) DCO Requirement 4	6.3.7 / 2.1
Section 7, Paragraph 7.1.1.1	Water quality	No abstractions or discharges to or from the River Trent. All operational water will be sourced from the mains and treated process water will either be discharged to sewer, reused within the Energy Park or stored and removed by tanker.	Operation	NLGEPL	DPCD DCO Requirement 3	5.12 / 2.1
Section 7, Paragraph 7.1.1.1	Water quality	Industry best practices will be followed during design and construction of water course crossings to ensure reduced interaction with watercourses.	Design and Construction	Construction Contractor	DPCD, CEMP (see also CoCP) DCO Requirements 3 and 4	6.3.7 / 2.1
Section 7, Paragraph 7.1.1.1	Water quality	Use of oil interceptors within surface water drainage provisions to ensure any surface water contaminated by hydrocarbons will be treated prior to discharge.	Operation	NLGEPL	Indicative Surface Water Drainage Plan DCO Requirement 8	6.3.5 / 2.1
Section 7, Paragraph 7.1.1.1	Water quality	Measures taken to reduce leachate, or any surface water potentially contaminated, to enter, directly or	Operation	NLGEPL	Indicative Surface Water Drainage Plan DCO Requirement 8	6.3.5 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		ndirectly, any watercourse, underground strata or adjoining land.				
Section 7, Paragraph 7.1.1.1	Water quality	Lining materials, good housekeeping techniques, and by the control of draining and construction materials to prevent groundwater contamination. Site personnel will be aware of potential impact on ground and surface water associated with certain aspects of construction works to further reduce accidental impacts.	Construction and Operation	Construction Contractor	CEMP, see also CoCP, Indicative Surface Water Drainage Plan DCO Requirements 4 and 8	6.3.7 / 6.3.5/ 2.1
Section 7, Paragraph 7.1.1.1	Water quality	Designated area for refuelling of construction vehicles and equipment with properly designed fuel tanks and bunds and suitable operating procedures.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.1	Water quality	Construction machinery maintenance on-site will be forbidden outside suitably kerbed or bunded areas to prevent accidental leakage of lubricating or hydraulic fluids.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.1	Water quality	Material stockpiles will be sited a minimum distance from watercourses to avoid pollution runoff. Best practice working procedures will be followed to avoid spillages near watercourses.	Construction	Construction Contractor	CEMP, see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.1	Water quality	All oil and chemical storage tanks and areas where drums are stored will be surrounded by an mpermeable bund. Single tanks will be within bunds sized to contain 110% of capacity and multiple tanks or drums will be within bunds sized to contain the greater of 110% of the capacity of the largest tank or 25% of the total tanks' contents.	Construction and Operation	Construction Contractor	CEMP (see also CoCP), Indicative Surface Water Drainage Plan DCO Requirements 4 and 8	6.3.7 / 6.3.5/ 2.1
Section 7, Paragraph 7.1.1.1	Water quality	All relevant works will adhere to The British Standard Code of Practice for Earthworks BS 6031:2009 for the general control of drainage on construction sites. Further advice within the British Standard Code of Practice for Foundations BS 804:1986, CIRIA C649 and C648 Control of Water Pollution from Linear Construction projects.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Chapter 10 – Ecology and Nature Conservation						

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.1, Paragraph 7.1.1.3	Habitat loss	The working footprint will be kept to a minimum with mpacts on key receptors avoided wherever possible.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.1, Paragraph 7.1.1.6	Species disturbance	Minimising disturbance through noise and lighting during construction.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.1, Paragraph 7.1.1.6	Habitat degradation and pollution	The adoption of best practices and development of management plans to prevent pollution from dust, chemicals, and excess sediment.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.1, Paragraph 7.1.1.6	Habitat loss and degradation	Appropriate soil stripping and storage, adhering to Defra (2009).	Construction	Construction Contractor	CEMP (SMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.1, Paragraph 7.1.1.6	Habitat loss and degradation	The protection of existing trees and vegetation to be retained prior to any materials or machinery being brought on site. Protective fencing will be installed in ine with BS 5837:2012.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.1, Paragraph 7.1.1.6	Invasive species	The implementation of control measures to prevent the introduction or spread of non-native species.	Construction	Construction Contractor	CEMP (INNS Management Plan, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.1, Paragraph 7.1.1.6	Habitat loss and species disturbance	Ensuring all site workers are aware of ecological ssues.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.1, Paragraph 7.1.1.7	Habitat loss and degradation	Wherever possible, habitats will be carefully reinstated; if this is not possible, compensatory habitat will be created elsewhere at least equal in area to that lost.	Design	NLGEPL	DPCD, ILBP, LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Habitat degradation and pollution	Measures in the CEMP (outlined in the CoCP) to imit dust pollution and fuel/chemical spillage will be strictly adhered to in the vicinity of national and regional wildlife sites.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.2, Paragraph 7.2.1.4	Habitat loss and degradation	Any felled/pruned trees and shrubs will be retained and stacked to create deadwood habitat piles where possible.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.145	Habitat loss and degradation	Stripped turves and soil will be stored separately and carefully replaced to allow the ground vegetation to recover where possible.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.4	Habitat loss and degradation	Native replacement trees and shrubs matching those that are removed will be planted in an irregular pattern at a spacing of around 1.5-2 m.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.4	Habitat loss and degradation	To aid establishment, where necessary transplants will be protected by stock-proof fencing, rabbit-proof fencing and/or protective guards (preferably made of bio-degradable material).	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.4	Habitat loss and degradation	An ECoW will provide specific instructions on all habitat restoration measures.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.6	Habitat loss and degradation	Machinery and workers will be instructed to disturb the minimum area of ground near to the Local Nature Reserve (LNR) boundary.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.6	Habitat loss and degradation	Access routes to working areas will be shared with and approved by the project ecologist prior to works commencement to avoid damage to habitats within the LNR.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.6	Habitat loss and degradation	Selected felled/pruned trees and shrubs will be retained and stacked to create deadwood habitat piles suitable for amphibians and reptiles.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraphs 7.2.1.6, 7.2.1.10 to 7.2.1.12	Habitat loss and degradation	Compensation for removed trees and scrub will be achieved through woodland creation and natural regeneration within the planned landscape area.	Construction	Construction Contractor	ILBP, CEMP (see also CoCP) DCO Requirements 4 and 6	4.10 / 6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.8	Habitat degradation and pollution	Measures in the CEMP will mitigate possible effects from dust pollution and fuel/chemical spillage.	Construction	Construction Contractor	CEMP (DMP), see also CoCP	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
					DCO Requirement 4	
Section 7.2, Paragraph 7.2.1.10	Habitat loss and degradation	To the south, the Local Wildlife Site supports semi- mproved neutral grassland located adjacent to the proposed access track. The construction phase will enforce a suitable speed limit and take measures to ensure vehicles and construction machinery stay within the confines of the track do not affect adjacent habitat.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.11	Habitat loss and degradation	Targeted scrub removal outside of the 5 m buffer will be carried out to enhance and increase the existing areas of Lowland Calcareous Grassland. All scrub removal will be undertaken using handheld machinery, outside of the nesting bird season and under the direction of a supervising ecologist.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.13	Habitat loss and degradation	Suitable mitigation for secondary impacts outlined within the CoCP (and to be developed in detail in the CEMP) will be adhered to.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.14	Habitat loss and degradation	Where possible, removed sections of hedgerow will be promptly reinstated following completion of construction within affected areas.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.14	Habitat loss and degradation	Topsoil from beneath the hedgerows will be stripped and stored separately, with soil storage areas clearly signed and demarcated to prevent any mixing with other soils.	Construction	Construction Contractor	CEMP (SMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.14	Habitat loss and degradation	Topsoil will be replaced after works and any banks reformed to similar profiles as before.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.14	Habitat loss and degradation	Replacement and compensatory hedgerow planting based on native shrub species of local origin. All new and replacement hedgerows will be species-rich, supporting over five woody species within each 30 m engtth.	Construction	Construction Contractor	ILBP, CEMP (see also CoCP) DCO Requirements 4 and 6	4.10 / 6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.2, Paragraph 7.2.1.14	Habitat loss and degradation	To aid establishment, where necessary transplants will be protected by stock-proof fencing, rabbit-proof fencing and/or protective guards (preferably made of bio-degradable material).	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.15	Habitat loss and degradation	The root zones of retained hedgerows in proximity to construction activities will be safeguarded by Root Protection Areas (as defined in British Standard: BS: 5837:2012), as specified within the CoCP.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.16	Habitat loss and degradation	Mitigation of Lowland Calcareous Grassland ncludes the establishment of exclusion zones with appropriate signage and pollution prevention measures. Compensation for unavoidable habitat oss will include the expansion of this habitat where scrub and/or trees will be permanently lost, and around the perimeter of proposed woodland planting to the west of the railway. Habitat creation will use translocated turfs where appropriate.	Construction	Construction Contractor	ILBP, CEMP (see also CoCP) DCO Requirements 4 and 6	4.10 / 6.3.7/ 2.1
Section 7.2, Paragraph 7.2.2.2	Habitat loss and degradation	The creation of Lowland Meadow grassland habitat within the Energy Park Land will provide compensation for the loss of 62 ha of arable farmland, including associated grassland field margins and areas of species-poor set-aside grassland.	Construction	Construction Contractor	ILBP, CEMP (see also CoCP) DCO Requirements 4 and 6	4.10 / 6.3.7/ 2.1
Section 7.2, Paragraph 7.2.2.3	Habitat loss and degradation	Where individual patches of scrub cannot be retained, they will be reinstated at the same location or compensated for by planting as part of the proposed landscaping area at a ratio of at least 2:1. Minor loss of species-poor tall ruderal and bracken vegetation will also occur; these will be compensated for by the planned habitat creation.	Construction	Construction Contractor	ILBP, CEMP (see also CoCP) DCO Requirements 4 and 6	4.10 / 6.3.7/ 2.1
Section 7.2, Paragraph 7.2.2.4	Habitat loss, degradation, and pollution	CEMP measures will be implemented to protect retained trees from root damage and compaction and to limit impacts affecting retained woodland, caused by dust and pollutants.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.2.4	Habitat loss and degradation	Material from felled/pruned trees and shrubs will be retained and stacked in nearby habitats to create	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		deadwood habitat piles to benefit amphibians, reptiles, and invertebrates.				
Section 7.2, Paragraph 7.2.2.4	Habitat loss	Compensatory woodland creation will include planting of a 15 m wide band extending 1 km along the northern side of the railway, to the south and south-east of the town of Flixborough. To aid establishment, where necessary transplants will be protected by stock-proof fencing, rabbit-proof fencing and/or protective guards.	Construction and operation	Construction Contractor / NLGEPL	ILBP, Outline LBMMP DCO Requirements 6 and 7	4.10 / 5.7/ 2.1
Section 7.2, Paragraph 7.2.2.5	Habitat loss and degradation	The CEMP will include pollution prevention measures and measures to prevent unplanned physical damage to banks which will be strictly adhered to when working near to watercourses and standing waters.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.2.6	Water quality	All ditches will be retained where possible and culverted or diverted only where necessary. Water course crossings will be established using ducts. In all circumstances, working within a wet channel will be avoided, minimising the potential for pollution. Once ducts are installed, ditches will be fully reinstated to their original condition and allowed to flow naturally.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.2.7	Habitat loss	Approximately 600 m of field drains require removal or diversion/culverting to facilitate the development. Habitat loss will be offset through the creation of new swales and ditches within the proposed wetland area.	Design and Construction	NLGEPL, Construction Contractor	PP, CEMP (see also CoCP) ILBP DCO Requirements 4 and 6	4.18 / 6.3.7 / 4.10/ 2.1
Section 7.2, Paragraph 7.2.2.8	Habitat loss	Two surface-water drainage ponds and a large area of pooling water requires removal to facilitate the development. The proposals for wetland creation and SuDS will provide sufficient compensation for the loss of these features.	Design and Construction	NLGEPL, Construction Contractor	ILBP DCO Requirement 6	4.10/ 2.1
Section 7.2, Paragraph 7.2.3.3	Invasive species	The INNS management plan will be finalised as part of the CEMP and will include detailed measures for the removal of invasive species and biosecurity	Construction	Construction Contractor	CEMP (INNS Management Plan), see also CoCP	6.3.7/ 5.7 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		measures to prevent the import or spread of invasive species. The LBMMP will include details of the ongoing monitoring regime of the Project during operation. This will allow for early identification and treatment of invasive species should they colonise.			Outline LBMMP DCO Requirements 4 and 7	
Section 7.2, Paragraph 7.2.3.5	Species harm	A licence from Natural England will be sought for works considered likely to affect GCN; district level licensing will be considered as a potential option. (Note that this licensing will be applied for outwith the DCO and is secured by separate legislation). Where required for licensing, repeated eDNA surveys of ponds will be undertaken during the survey season prior to works commencement. No works that could affect suitable GCN terrestrial habitat will begin until the necessary licence has been obtained.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) (see also Consents and Licence Document) DCO Requirement 3	6.3.7 / 5.8/ 2.1
Section 7.2, Paragraph 7.2.3.6	Habitat loss	Reasonable avoidance measures will be included within a method statement outlining mitigation and compensation measures for GCN. Measures will be implemented by contractors undertaking railway reinstatement works within 0.25 km of GCN ponds.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.6	Habitat loss and harm to species	Timing of works for the clearance of suitable amphibian refuge habitat within 0.25 km of GCN breeding ponds will take place during the GCN breeding season (mid-March to end of June), when most of the population will be located within the breeding pond. If this is not possible the works will be undertaken between April and October.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.6	Habitat loss and harm to species	Guidance on the use of access routes, vehicles, plant, and tools will be provided by a suitably qualified ecologist when specifying the construction methodology.	Construction	Construction Contractor	CEMP, see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.6	Habitat loss and species harm	Before clearance works commence, all contractors will receive a 'tool-box' talk or site induction from a suitably qualified ecologist to make them aware of the potential for GCN, legislative context and procedure if GCN are encountered during works.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.2, Paragraph 7.2.3.6	Species harm	Vegetation clearance will involve strimming using handheld machinery to a height of 150 mm (and arisings removed), a minimum of 48 hours before strimming to ground level, to encourage individuals to move out of the immediate area. Strimming will be carried out under ecological supervision.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.6	Habitat loss and species harm	Prior to any disturbance/destruction of amphibian refuge habitat, suitable compensatory habitat in the form of hibernacula, in a nearby location will be nstalled. The careful dismantling of log/brash piles will be carried out by hand and reassembled outside of the working area. Railway sleepers will be carefully lifted, and the underside inspected by the supervising ecologist before being taken off site or repositioned.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.6	Species harm	Hand searching will be undertaken after strimming and prior to the commencement of construction within 0.25 km of a GCN pond, by a suitably experienced ecologist.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.6	Species harm	Any trenches or other excavations will be backfilled, covered over, or a means of escape provided at the end of each day in order to prevent amphibians becoming stranded within trenches. Trenches will be carefully inspected in the morning prior to commencement of works.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.6	Habitat loss and degradation	All stockpiling of materials or storage of machinery within 0.25 km of GCN ponds must be contained within sub-optimal habitat.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.6	Species harm	All excavated material will be stored in such a way that does not create habitat for GCN.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.6	Species harm	In the event that GCN are encountered, works in that ocation must cease immediately and the scheme ecologist contacted. GCN will be moved by a	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		suitably licensed ecologist or agent to a suitable ocation outside the working area. Common amphibians will be carefully relocated in the same way by site operatives.				
Section 7.2, Paragraph 7.2.3.7	Species harm	Mitigation for potential impacts on common amphibians includes phased strimming during vegetation clearance (leaving 48 hours between strimming to 150 mm and ground level); anti-entrapment measures for trenches and other excavations; compact stockpiling of materials over hardstanding or open ground; and ensuring contractors are aware of amphibians and a suitable area they may be relocated to. ECoW supervision will also be required for the draining down of ponds and removal/diversion of ditches within the Energy Park Land, in order to oversee amphibian welfare and support the relocation of any amphibians to an undisturbed ditch outside of the working area.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.8	Habitat loss	Wherever possible, trees will be retained, and their root systems will be protected from disturbance through the implementation of Root Protection Areas.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.8	Species harm	If felling or pruning is necessary, pre-commencement checks, involving an aerial assessment of potential roosting features, will be undertaken immediately prior to works affecting these trees.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.8	Species harm	Bat boxes will be repositioned on a suitable tree nearby and replaced if found to be broken or damaged.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) Outline LBMMP DCO Requirements 4 and 7	6.3.7/ 5.7/ 2.1
Section 7.2, Paragraph 7.2.3.8	Species harm	Two additional Schwegler 2F bat boxes will be nstalled on a nearby suitable tree to compensate for the loss of any natural roosting features.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.2, Paragraph 7.2.3.9	Species harm	Checks for potential bat roosting features in both buildings and trees will form part of the pre-clearance ecology walkovers that will be ncorporated in the CEMP. If roosting bats or potential bat roosts are identified an appropriate mitigation strategy will be developed.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.10	Habitat loss	Habitat clearance will be preserved where possible by minimising working areas. Planned habitat creation and landscape screening, outlined in the ndicative Landscape and Biodiversity plan, includes broadleaved woodland, hedgerows, scrub, grassland, and wetland areas. These measures will provide suitable compensation.	Design	NLGEPL	DPCD ILBP DCO Requirements 3 and 6	5.12 / 4.10/ 2.1
Section 7.2, Paragraph 7.2.3.11	Species disturbance	Proposed external artificial lighting, including temporary construction lighting (if works are required at night) and permanent security, operational and road lighting installed within the development will be designed to avoid light spill onto existing commuting corridors and created habitats.	Construction and Operation	Construction Contractor NLGEPL	CEMP (see also CoCP) Indicative Lighting Strategy DCO Requirements 4 and 5	6.3.7 / 6.3.4/ 2.1
Section 7.2, Paragraph 7.2.3.12	Habitat loss and species harm/disturbance	Where possible, the clearance of nesting habitats will be undertaken outside the breeding bird season (March to August inclusive). Any clearance of suitable habitats for tree/scrub nesting birds that is carried out within the bird breeding season, will be subject to pre-clearance bird surveys carried out by a suitably experienced ecologist.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.12	Species harm/disturbance	No works will be carried out within a nesting buffer zone determined by the ECoW, until the young have fledged and are no longer returning to the nest site. Works will only be undertaken once a suitably qualified ECoW has declared the nest is no longer in use.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.12	Species harm/disturbance	Where pre-clearance checks identify Cetti's warbler, measures to avoid disturbance to this species will nvolve establishing a minimum 25 m exclusion zone	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		depending on the level of surrounding construction noise.				
Section 7.2, Paragraph 7.2.3.13	Habitat loss	Wet scrub and swamp/marginal vegetation creation for loss of Cetti's warbler breeding habitat; key species to feature in the habitat creation scheme will nclude common reed and willow	Construction	Construction Contractor	DPCD ILBP DCO Requirements 3 and 6	5.12 / 4.10/ 2.1
Section 7.2, Paragraph 7.2.3.13	Habitat loss	Any loss of scrub, woodland, or hedgerows, which provides suitable breeding habitat for blackcap/dunnock/song thrush/bullfinch/tree sparrow will be compensated for by woodland, scrub, and hedgerow creation.	Construction	Construction Contractor	DPCD ILBP DCO Requirements 3 and 6	5.12 / 4.10/ 2.1
Section 7.2, Paragraph 7.2.3.13	Habitat loss	Any loss of arable fields which are suitable for grey partridge will be compensated for with the provision and maintenance of long, tussocky grassland.	Construction	Construction Contractor	DPCD ILBP, Outline LBMMP DCO Requirements 3 and 6	5.12 / 4.10 / 5.7/ 2.1
Section 7.2, Paragraph 7.2.3.13	Habitat loss	Any loss of breeding habitat will include the provision of tall marginal vegetation dominated by grasses and wetland habitats.	Construction	Construction Contractor	DPCD ILBP DCO Requirements 3 and 6	5.12 / 4.10/ 2.1
Section 7.2, Paragraph 7.2.3.13	Habitat loss	Any loss of arable cropland which provides significant habitat for breeding skylark, will be mitigated with new habitat creation including lowland meadow and or bringing existing areas of grassland nto a management regime.	Construction	Construction Contractor	DPCD ILBP, Outline LBMMP DCO Requirements 3 and 6	5.12 / 4.10 / 5.7/ 2.1
Section 7.2, Paragraph 7.2.3.13	Habitat loss	Any loss of suitable habitat for willow warbler will be mitigated for by the creation of dense scrub, comprising native species.	Construction	Construction Contractor	DPCD ILBP DCO Requirements 3 and 6	5.12 / 4.10 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.2, Paragraph 7.2.3.13	Habitat loss	Hedgerow creation will be incorporated into the andscape design of the Energy Park Land, with management regimes that avoid cutting during the nesting bird season.	Construction	Construction Contractor	DPCD ILBP, Outline LBMMP DCO Requirements 3 and 6	5.12 / 4.10 / 5.7/ 2.1
Section 7.2, Paragraph 7.2.3.13	Habitat loss	Any loss of arable farmland will require mitigation for yellow wagtail in the provision of lowland meadow, dense marginal/tall ruderal, 'weedy' vegetation, and wetland features.	Construction	Construction Contractor	DPCD ILBP DCO Requirements 3 and 6	5.14 / 4.10 / 2.1
Section 7.2, Paragraph 7.2.3.15	Habitat loss	Any loss of habitats will require mitigation for wintering birds including grassland creation, scrub/hedgerow planting with berry/fruit bearing native trees and shrubs and provision of marginal and tall ruderal vegetation within wet features.	Construction	Construction Contractor	CEMP see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.16	Species loss	Prior to the commencement of works, all contractors will receive a 'tool-box' talk from a suitably qualified ecologist to make them aware of the potential for encountering common lizards and procedure if reptiles are found during works.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.16	Habitat loss	Phased working areas will be clearly defined to limit potential disturbance of habitats.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.16	Habitat loss	An ecological walkover prior to each phase of works will confirm a method of vegetation clearance, likely to involve a combination of approaches including the hibernation habitat for reptiles.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.16	Species harm	Following strimming to 50 mm, any potential hibernation or refuge habitat (such as rock piles, tree roots or wood/brash piles) present within the working area will be dismantled and removed carefully under supervision of the ecologist.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.16	Habitat loss	Immediately after vegetation clearance, arisings will be removed from the working area to avoid creating suitable habitat for reptiles. For example woody	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		material can be used to create habitat in unaffected areas of the site, under direction from a suitably qualified ecologist.				
Section 7.2, Paragraph 7.2.3.16	Species harm	Post-clearance and during earthworks, all vegetation will be kept short until completion of works in a given area.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.16	Species harm	All stored materials, which may provide reptiles with suitable refugia, will be raised off the ground, on pallets stored over bare ground.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.16	Species harm	All excavated material will be stored in such a way that does not create habitat for reptiles (i.e. well compacted with no voids).	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.16	Species harm	Any trenches or other excavations required within the site will be backfilled before nightfall, or a ramp eft to prevent reptiles becoming trapped. Trenches will be carefully inspected in the morning prior to commencement of works.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.17	Species harm	Compensatory habitats will be created for the loss of habitats used by common lizards, including areas of woodland and calcareous grassland within the Railway Reinstatement Land. Logs from felled trees will be used to create suitable refugia and basking ocations along the south-facing embankment of the railway.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.18	Species harm	Pre-construction walkovers and monitoring for badgers a maximum of two months prior to each phase of works.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.18	Species harm	Installation (or integration with construction site fencing) of suitable fencing to discourage badgers from entering the construction site whilst providing a safe route to accessible foraging habitats.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.2, Paragraph 7.2.3.18	Species harm	There will be a phased construction where a main sett is nearby, to avoid isolation / fragmentation of badgers from foraging and commuting habitat.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.18	Species harm	No construction works will be undertaken within 30 m of an active sett not subject to temporary closure, and clear marks will be used to delineate the boundaries of the working areas.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.18	Species harm	Heavy machinery and site access will be planned to avoid coming near badger setts.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.18	Species harm	Fire or chemicals will not be used within 20 m of a sett entrance.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.18	Species harm	Any trees that need to be felled will be felled in such a way that they fall away from active setts, and any felled trees will be cleared from badger paths and sett entrances.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.18	Species harm	Loud noises and vibrations will be avoided as much as possible near active setts.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.18	Species disturbance	Temporary construction and permanent artificial ighting will avoid excess spillage onto adjacent habitats and badger commuting routes leading from setts to badger tunnels and beyond, with new scrub and tree planting offering additional screening.	Construction and operation	Construction Contractor NLGEPL	CEMP (PSMP, see also CoCP) Indicative Lighting Strategy DCO Requirements 4 and 5	6.3.7/ 6.3.4/ 2.1
Section 7.2, Paragraph 7.2.3.18	Species harm	Any excavations will be covered at night, or a means of escape provided for wildlife.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.2, Paragraph 7.2.3.18	Species harm	A watching brief will be maintained for badgers and if any are seen or suspected works will be stopped mmediately, and a suitably qualified ecologist contacted.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.18	Species harm	Contractors will be vigilant during the works, and should a tunnel be breached and impacts on a badger, or any other animal be suspected, then the works will stop immediately, and a suitably qualified ecologist contacted.	Construction	Construction Contractor	CEMP (see also CoCP) PSMP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.20	Species harm	Installing a minimum of one suitable badger tunnel beneath the access road and associated commuting routes to mitigate the reduction and fragmentation of foraging habitat.	Design, Construction	NLGEPL, Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.21	Species harm	Works within 30 m of the sett in close vicinity to the Railway Reinstatement Land will be avoided within the badger breeding season (July to November nclusive).	Construction	Construction Contractor	CEMP (PSMP, see DCO Requirement 4 also CoCP)	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.21	Species harm	No excavations will be dug within 30 m of the sett.	Construction	Construction Contractor	Embedded Works Plans	4.4
Section 7.2, Paragraph 7.2.3.21	Species harm	Prior to commencement, all contractors must be made aware of the potential for badger to be encountered during works.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.21	Species harm	Vegetation clearance required within 10 m of the sett will be carried out under ecological supervision and using hand tools only.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.21	Species harm	Contractors will not store materials within 10 m of the sett and noise levels will be kept to a minimum.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.2, Paragraph 7.2.3.21	Species harm	Machinery will not track within 10 m of the sett.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.24	Species harm	All contractors will be made aware of the potential presence of otter and water vole.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.24	Species harm	Wherever possible, night-time working near watercourses will be avoided or else minimised.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.24	Species harm	There will be no direct illumination of watercourses.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.24	Species harm	Obstructions to otter movement along watercourses will, wherever possible, be temporarily removed, beached, or bridged at night.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.24	Species harm	Any excavations/trenches/open pipe systems will be backfilled or capped at the end of each working day. Where this is not practical, an escape ramp will be provided to allow egress for any animals which become trapped in excavations.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.25	Species harm	Mitigation for water vole will comprise pre-commencement surveys of all ditches within the working area undertaken within the appropriate survey period (two visits April to September). If signs are observed displacement will be undertaken under a class licence.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.26	Habitat degradation	Any debris from works will not be left within the Application Land.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.2, Paragraph 7.2.3.26	Species harm	Any excavations associated with works will be covered overnight or fitted with egress boards to prevent animals becoming trapped.	Construction	Construction Contractor	CEMP (PSMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.26	Species harm	Any small mammals found within the works area during construction will be carefully relocated to sheltered and undisturbed locations with plenty of vegetation cover.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.27	Water quality and species harm	Pollution mitigation measures will minimise the possibility of dust pollution and fuel/chemical spillage affecting the River Trent during the construction and operational phases.	Construction	Construction Contractor	CEMP (DMP, SRP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.28	Water quality / Fugitive emissions	Pollution mitigation measures will minimise the possibility of dust pollution and fuel/chemical spillage affecting the River Trent during the construction and operational phases.	Operation	NLGEPL	CEMP (see also CoCP) OEMP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.28	Habitat loss	Three ponds and part of the ditch network will be removed/modified within the Energy Park Land. ECoW supervision will be in place for draining down and to oversee fish welfare and support relocation.	Construction and operation	Construction Contractor NLGEPL	DPCD CEMP (see also CoCP) DCO Requirements 3 and 4	5.14 / 6.3.7/ 2.1
Section 7.2, Paragraph 7.2.3.29	Habitat loss	A targeted series of species-specific mitigation measures will be incorporated as part of habitat creation including provision of a mosaic of habitats along the railway line which feature open, sunny areas, bare ground, disturbed ground and grassland and promotion of food plants, including viper's bugloss and common rock rose, for key species dentified in the invertebrate survey.	Construction and operation	Construction Contractor NLGEPL	DPCD ILBP Outline LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1
Section 7.3, Paragraph 7.3.1.3	Habitat loss	Extensive areas (14 ha) of new native woodland will be created on arable farmland within the Railway Reinstatement Land. It will be planted prior to the construction phase, allowing the habitat to begin establishing in advance of initial impacts on habitats and species.	Construction and operation	Construction Contractor NLGEPL	DPCD ILBP Outline LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		Blocks of woodland around the Energy Park development will be delivered to complement nearby and adjoining areas of new scrub and grassland habitat.				
Section 7.3, Paragraph 7.3.1.4	Habitat loss	Planting native tree and shrub species characteristic of lowland mixed deciduous woodland, including a rich mix of understorey and canopy species, and using transplants of local provenance.	Construction and operation	Construction Contractor NLGEPL	DPCD ILBP Outline LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1
Section 7.3, Paragraph 7.3.1.4	Habitat loss	The condition of new woodland will be maximised by: Using varied planting patterns and spacings to encourage structural diversity and areas of open space. Featuring wide scrubby margins. Protecting newly planted trees and shrubs from browsing damage; where necessary transplants will be protected by stock-proof fencing, rabbit-proof fencing and/or protective guards (preferably made of bio-degradable material).	Construction and operation	Construction Contractor NLGEPL	DPCD ILBP Outline LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1
Section 7.3, Paragraph 7.3.1.6	Habitat loss	A large area of wetland is to be created to the west of the new access road within the Energy Park Land to encourage the greatest diversity of plants, nvertebrates, amphibians, and mammals and to provide a buffer against pollution or the invasion of non-native species. The habitat creation principles will be set out in the LBMMP.	Construction and operation	Construction Contractor NLGEPL	DPCD ILBP Outline LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1
Section 7.3, Paragraph 7.3.1.8	Habitat loss	Grassland creation will compensate for the loss of: (i) arable land and associated areas of species-poor grassland and field margins; and (ii) areas of calcareous grassland along the track bed when the railway is reinstated. It will significantly add to the overall extent of semi-natural grassland in the area	Construction and operation	Construction Contractor NLGEPL	DPCD ILBP Outline LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		and provide a habitat that is a national priority for nature conservation.				
Section 7.3, Paragraph 7.3.1.11	Habitat loss	Stands of mixed native-species scrub will be created n the Energy Park Land, including below pylons and as scattered scrub within fields to the west and east of the proposed access road close to Neap House.	Construction and operation	Construction Contractor NLGEPL	DPCD ILBP Outline LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1
Section 7.4, Paragraph 7.4.2.1	Air quality and species harm	Measures to limit emissions to air, including the use of appropriate stack heights to optimise dispersion of pollutants, and emissions monitoring to demonstrate compliance with emission limit values (ELV) determined by the Environment Agency. The process to remove CO_2 will further reduce emissions.	Design and operation	NLGEPL	EP	N/A
Section 7.4, Paragraph 7.4.2.1	Noise and species disturbance	Measures to limit noise pollution, the primary sources of which will be loading and unloading operations, operational traffic movements around the site, the air-cooled condensers, turbine hall and compressors.	Design and operation	NLGEPL	OEMP DCO Requirement 4	6.3.8/ 2.1
Section 7.4, Paragraph 7.4.2.1	Light and species disturbance	Measures to limit light pollution, which includes a sensitive lighting scheme around the Energy Park Land that will implement operational lighting meeting the minimum requirements.	Design and operation	NLGEPL	Indicative Lighting Strategy DCO Requirement 5	6.3.4/ 2.1
Section 7.4, Paragraph 7.4.3.2	Species protection	The badger tunnel beneath the access road will be checked regularly, particularly during the first two years, to ensure that the feature is functioning properly and to confirm that badgers are using it (through setting out trail cameras or clay mats). Any badger fencing established in this area will be monitored to ensure it remains effective.	Operation	NLGEPL	Outline LBMMP DCO Requirement 7	5.7/ 2.1
Section 7.4, Paragraph 7.4.3.3	Species protection	Maintenance works along the reinstated railway will require occasional pruning of overhanging trees and scrub. These maintenance works will be carried out outside of the breeding bird season. Brash will be piled in suitably undisturbed areas of the railway	Operation	NLGEPL	Outline LBMMP DCO Requirement 7	5.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		corridor to provide refugia for amphibians, reptiles and small mammals.				
Section 7.4, Paragraph 7.4.3.4	Species protection	Any future requirements for in-channel maintenance works to ditches in the Energy Park Land (e.g. dredging/ desilting) will be subject to established statutory regulatory procedures to limit impacts on fish, amphibians and other aquatic biodiversity.	Operation	NLGEPL	Outline LBMMP DCO Requirement 7	5.7/ 2.1
Section 7.4, Paragraph 7.4.4.1	Habitat degradation	A range of on-going management measures will be used to ensure that the biodiversity value of both newly created habitats and retained habitats is secured for a minimum of 30 years. These are outlined below. Detailed management and monitoring prescriptions will be set out in the LBMMP. These will need to be adapted to take account of the success of planned measures (e.g. grassland wildflower seeding, tree planting, bracken control, pond creation) and most appropriate responses (e.g. grazing of grassland).	Operation	NLGEPL	Outline LBMMP DCO Requirement 7	5.7/ 2.1
Section 7.4, Paragraph 7.4.4.2	Habitat oss/degradation	Woodland management will be applied to the extensive areas of new native woodland within the Railway Reinstatement Land, the tree planting areas within the Energy Park Land, and where wet woodland is established as part of the wetland habitat complex to the west of the new access road within the Energy Park Land. This will be guided by the advice set out by the Forestry Commission and guidance on management for invertebrates. It will focus on ensuring that an adequate density of transplanted trees and shrubs is established, fences are maintained, protective tree guards are removed when no longer needed, and potential issues are monitored and responded to in an appropriate manner (including excessive deer browsing, grey squirrel debarking, and invasive non-native species). Opportunities to create a varied canopy structure will be identified, including periodic coppicing/mowing/strimming of woodland edges and glades/rides to ensure areas of young-growth, open	Operation	NLGEPL	Outline LBMMP DCO Requirement 7	5.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		and sinuous edge habitats are maintained. Minimum ntervention is likely to be most appropriate for areas of wet woodland. Options to enhance the ground flora will be considered once the woodland as established.				
Section 7.4, Paragraph 7.4.4.3	Habitat oss/degradation	The creation of reedbed areas is proposed within the wetland habitat complex west of the new Energy Parkaccess road. These areas will be manged to enhance their value based on the advice set out by the RSPB and on management for invertebrates. This will focus on ensuring that areas of new reed become established and appropriate ground water evels are maintained. Other small-scale management measures that might be required occasionally include dredging of accumulated litter and silt; targeted removal of vegetation and root systems to restore open water; cutting of reeds; and removal of invading willow scrub.	Operation	NLGEPL	ILBP Outline LBMMP DCO Requirements 6 and 7	4.10 / 5.7/ 2.1
Section 7.4, Paragraph 7.4.4.4	Habitat oss/degradation	New areas of grassland will be created in various ocations, together with other areas of retained grassland that will be enhanced. This includes areas of lowland meadow/neutral grassland within and surrounding the Energy Park Land; calcareous grassland within the Railway Reinstatement Land; and damper areas of grassland within the wetland habitat complex west of the new Energy Park access road. These grasslands will be managed to maximise the species-richness of the sward and provide a range of conditions suitable for ground nesting and foraging birds, brown hare, amphibians and reptiles, and a variety of invertebrates. Management will be guided by the Lowland Grassland Management Handbook and advice on management for invertebrates. It will aim will be to create grasslands in fairly good to good condition (based on criteria in the Defra Biodiversity Metric 3.0). Regular assessment of the sward will be undertaken to inform ongoing management needs,	Operation	NLGEPL	ILBP Outline LBMMP DCO Requirements 6 and 7	4.10 / 5.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		ncluding cutting and grazing regimes, introductions of wildflowers, control of invasive non-native and other undesirable species, and reductions of bracken and scrub. Measures to improve and potentially expand existing areas of Lowland Calcareous Grassland HPI will be a priority.				
Section 7.4, Paragraph 7.4.4.5	Habitat oss/degradation	Management of areas of new, replacement and retained scrub will broadly follow that of woodlands (see above). The overall aim will be to create stands of scrub in moderate to good condition (based on criteria in the Defra Biodiversity Metric 3.0). The focus for new and replacement stands of scrub will be to ensure that an adequate density of transplanted shrubs establish, protective guards are removed when no longer needed, and potential ssues are monitored and responded to (e.g. nvasive non-native species). Action will be taken to create a varied canopy structure, including periodic coppicing and mowing/strimming of edges and glades. This will ensure that young-growth habitat and glades are maintained, as well as sinuous edge habitats that grade into grassland, tall herb and other communities. Options to enhance the ground flora will be considered (Worrell et al., 2021).	Operation	NLGEPL	ILBP Outline LBMMP DCO Requirements 6 and 7	4.10 / 5.7/ 2.1
Chapter 11 – Landscape and Visual Impact						
Section 7, Paragraph 7.1.1.2	Landscape	Direct impacts on landscape features have been avoided through the siting of the Project within an area that is partly brownfield land, with few trees, hedgerows, or other valued landscape features to be affected.	Design	NLGEPL	DPCD DCO Requirement 3	5.12/ 2.1
Section 7, Paragraph 7.1.1.2	Visual Impact	Buildings within the Project have been grouped so that they relate primarily to the existing commercial and industrial land uses at Flixborough Industrial Estate.	Design	NLGEPL	DPCD DCO Requirement 3	5.12/ 2.1
Section 7, Paragraph 7.1.1.2	Landscape and visual	The railway replacement will take place entirely within the existing footprint of the existing railway ine, reducing the impact on the landscape.	Design	NLGEPL	DPCD DCO Requirement 3	5.12/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7, Paragraph 7.1.1.2	Visual Impact	Parameters of buildings and structures have been designed to be the minimum size reasonable to ensure that construction of the Project is feasible.	Design	NLGEPL	DPCD DCO Requirement 3	5.12/ 2.1
Section 7, Paragraph 7.1.1.2	Visual Impact	The Indicative Lighting Strategy (**Document Reference 6.3.4**) has been developed to minimise mpacts on night-time views from the surrounding andscape.	Design	NLGEPL	Indicative Lighting Strategy DCO Requirement 5	6.3.4 / 2.1
Section 7, Paragraph 7.1.1.5	Landscape and visual	Introduction of pockets and strips of woodland planting, including both formal and natural planting, at strategic locations at the parameter of proposed buildings to soften the impact of the Project and to ntegrate built form into the landscape.	Construction	Construction Contractor	DPCD ILBP DCO Requirements 3 and 6	5.12 / 4.10 / 2.1
Section 7, Paragraph 7.1.1.5	Landscape and visual	Extension of the distinctive linear woodland (Burton Wood) located on the scarp slope to provide a wider connection and strategic belt of green infrastructure, inking with the corridor provided by the railway reinstatement land, and screening views from Flixborough.	Construction	Construction Contractor	DPCD ILBP Outline LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1
Section 7, Paragraph 7.1.1.5	Landscape and visual	Extension of this woodland west along the railway ine, to form an enhanced green link around the north edge of Flixborough Industrial Estate and to provide visual screening to the ERF.	Construction	Construction Contractor	DPCD ILBP Outline LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1
Section 7 Paragraph 7.1.1.5	Landscape and visual (and ecology)	Creation of a wetland area extending north to south along the west side of the Project, to enhance local andscape quality and recreational opportunities.	Construction	Construction Contractor	DPCD ILBP Outline LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1
Section 7, Paragraph 7.1.1.5	Landscape (and ecology)	Creation of areas of grassland to the east of the battery storage and west of the above ground	Construction	Construction Contractor	DPCD ILBP Outline LBMMP	5.12 / 4.10 / 5.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		nstallation (AGI), to enhance local landscape quality and biodiversity.			DCO Requirements 3, 6 and 7	
Section 7, Paragraph 7.1.1.5	Visual	Introduction of pockets of vegetation along the corridors of the A1077 to filter views of the Project, whilst allowing some long-distance views across the ow-lying landscape.	Construction	Construction Contractor	DPCD ILBP Outline LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1
Section 7, Paragraph 7.1.1.5	Landscape (and ecology)	Reinstatement of hedgerow along Ferry Road West and planting around the Site entrance, to create a andscape gateway and provide links between new woodland areas.	Construction	Construction Contractor	DPCD ILBP Outline LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1
Section 7, Paragraph 7.1.1.5	Landscape and visual	Creation of more formal landscape planting along the spine road, around the buildings, and along the railway terminal to assist integration of the buildings nto the arable landscape pattern.	Construction	Construction Contractor	DPCD ILBP Outline LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1
Section 7, Paragraph 7.1.1.5	Landscape and visual	Introduction of public access and green links through the Site, connecting the river and the Local Nature Reserve to increase recreational value.	Construction	Construction Contractor	DPCD ILBP Outline LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1
Section 7, Paragraph 7.1.1.5	Landscape and visual	Planting of woodland strips parallel to the railway reinstatement land to replace cleared vegetation, retaining the perception of a continuously wooded corridor, providing linkage between existing woodlands, and reinforcing visual screening along Stather Road at Flixborough village.	Construction	Construction Contractor	DPCD ILBP, Outline LBMMP DCO Requirements 3, 6 and 7	5.12 / 4.10 / 5.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7, Paragraph 7.1.1.8	Landscape and visual	Further consideration of the architectural design will be required at detail design stage, to reduce the effects of the Project at Viewpoint 1. In particular, the following steps will assist: ▪ Using variation in roof heights and massing to visually break up the bulk of the ERF building; ▪ Use of colour, for example a light colour on the roof or upper storey, with darker colours restricted to the lower storeys (although application of distinct 'banding' is unlikely to be effective at this distance, and may simply draw more attention to the building); ▪ Limit the extent of exposed building infrastructure (pipes, external tanks etc.) by integrating these elements, or alternatively by screening or wrapping of larger external cylinders to ensure a more ordered appearance and reduce visibility of any external lighting; and ▪ A substantive visual barrier installed along the railhead edge or along the development platform of the ERF would provide screening of ground level storage and activity such as loading bays and vehicle movements. This would need to be a visually impermeable barrier of at least 3m in height and could be coloured or textured to reflect the river edge.	Detailed design	NLGEPL	DPCD DCO Requirement 3	5.1/ 2.1
Section 7, Paragraph 7.1.1.9	Landscape and visual	More generally, the following measures will assist in further reducing the effects of the Project on andscape and visual amenity: ▪ Consideration of the architectural response to ensure the detail of the Project, including form, material, colour and finishes, is integrated within the landscape to reduce landscape and visual effects; and ▪ Limiting the overall height and dimensions of the buildings and the stack, where feasible to do so, to reduce their impact on the landscape and	Detailed design	NLGEPL	DPCD DCO Requirement 3	5.12 / 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		views compared to the maximum scenario assessed in the LVIA.				
Chapter 12 – Archaeology and Cultural Heritage (reference should be made to the Section 6.6 of Chapter 12 for an explanation of the 'Impact Areas'						
Section 7, Paragraph 7.1.1.2 to 7.1.1.4	Loss of or damage to buried archaeology	Impact Area 1 The excavation of the fuel bunker shaft will be conducted with an archaeological watching brief, which allows for regular access to the shaft for recording of the alluvial sequence (site 134). Special provision will be made for an excavated face of the sequence to be made available during excavation (between shuttering) to enable a continuous archaeological section to be drawn and appropriate environmental samples to be taken. The watching brief will include provision for mechanical excavation to be suspended, enabling controlled archaeological excavation should traces of archaeological material be encountered. The buried remains of the medieval/post-medieval settlement at Flixborough Staithe (site 7) will be recorded by a controlled archaeological excavation down to proposed impact levels. The surviving historic fabric of Flixborough Ferry (site 132), on the foreshore immediately west of the Order Limits, will be recorded at low water to form a permanent record of their form and current condition.	Construction	Construction Contractor	CEMP (see also CoCP DCO Requirements 4 and 11	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.5 to 7.1.1.6	Loss of or damage to buried archaeology	Impact Area 2 An archaeological watching brief will be undertaken during the excavations of the foundations for the plastic recycling facility and concrete block manufacturing facility, where they impact on deeply buried organic sequences. Depending on the results of this watching brief and the purposive geoarchaeological evaluation outlined in Appendix E, which includes borehole transects through Area 2, a strip map and sample strategy may also be undertaken in this location, targeting the edge of the	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirements 4 and 11	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		peat deposit where waterlogged archaeological remains have a higher likelihood of surviving. The area where a former brick kiln is known to have been located, to the east of the road south of Flixborough Staithe (site 124) will be subject to a comprehensive watching brief.				
Section 7, Paragraph 7.1.1.7 to 7.1.1.8	Loss of built heritage	Impact Area 3 A watching brief will be carried out in the area of the Second World War searchlight battery that formerly existed to the north of the B1216 (site 10). The watching brief will include provision for mechanical excavation to be suspended, enabling controlled archaeological excavation should traces of archaeological material be encountered. Following trial trench investigation of the features dentified during geophysical survey (Appendix F), there will be controlled archaeological excavation (strip, map and sample) of areas where archaeological remains are identified.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirements 4 and 11	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.9 to 7.1.1.10	Loss of or damage to buried archaeology	Impact Area 4 Following additional geoarchaeological and trial trenching evaluation (Appendix E and F, respectively) archaeological excavation of the site of the substation and Gas AGI plant will take place (site 133). Geophysical survey has identified anomalies in this area which suggest former Roman and, in all probability, prehistoric settlement. Previous nvestigations further east along the same slope have demonstrated both the high archaeological potential of this area, and the tendency of the wind-blown sands to cover old land surfaces. Controlled archaeological excavations down to formation level will be conducted across this area. Those portions of Area 4 which fall outside the substation/AGI development area, will be subject to woodland landscaping as part of the Project. An archaeological watching brief will be conducted of	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirements 4 and 11	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		any activities involving ground disturbance in this area, given the potential for archaeological material ndicated by geophysical surveys as well as past discoveries on the wind-blown sands of the valley slopes. The watching brief will include provision for mechanical excavation to be suspended, enabling controlled archaeological excavation should traces of archaeological material be encountered.				
Section 7, Paragraph 7.1.1.11	Loss of or damage to buried archaeology	Impact Area 5 An archaeological watching brief will be conducted during stripping of the easement for the DHPWN given the known potential for prehistoric and later archaeology on the wind-blown slopes of the valley side. The watching brief will include provision for mechanical excavation to be suspended, enabling controlled archaeological excavation should traces of archaeological material be encountered.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirements 4 and 11	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.12 to 7.1.1.13	Loss of or damage to buried archaeology	Impact Area 6 An archaeological watching brief will be conducted during stripping of the topsoil ahead of the construction of the bund in this area given the proximity of the potential Iron Age/Roman cropmark site (site 9). The watching brief will include provision for mechanical excavation to be suspended, enabling controlled archaeological excavation should traces of archaeological material be encountered. There are few options in terms of direct mitigation of the impacts of the Project on the setting of the Scheduled remains of 'Flixborough Nunnery'. Screen planting would block views across the Trent Valley and the Isle Of Axeholme, which are integral to the site's sense of place.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirements 4 and 11	6.3.7/ 2.1
Chapter 13 – Traffic and Transport						
Section 7.2, Paragraph 7.2.1.2	Traffic disruption	A Construction Traffic Management Plan (CTMP) will be developed prior to the commencement of construction, which will define the hours during which deliveries can be made to and from the site	Construction	Construction Contractor	DPCD, CLP (see outline CLP) DCO Requirement 10	5.12 / 6.2.13 Appendix D/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		and also the routes that vehicles will take. Deliveries will be timed to avoid the peak times for pedestrian movement (such as school start and finish times) as far as possible so as to limit the impact of the additional HGV movements on pedestrian /cycle delay and amenity.				
Section 7.2, Paragraph 7.2.1.3	Traffic disruption	.All construction vehicle operators will be required to be accredited in line with FORS (Freight Operator Recognition Scheme) to demonstrate their commitment to using clean, safe vehicles with good evels of direct vision, safety bars and advisory signage (as stipulated in the outline CLP) unless a specific exception is agreed with NLC prior to that haulier or supplier visiting site. This will seek to minimise the risk of collisions between vehicles and vulnerable road users, such as cyclists and pedestrians.	Construction	Construction Contractor	DPCD, CLP (see outline CLP) DCO Requirement 10	5.12 / 6.2.13 Appendix D/ 2.1
Section 7.2, Paragraph 7.2.1.4	Traffic disruption	In terms of construction workforce, whilst the majority of travel is expected to fall outside the highway peak hours, there is a commitment in the outline CLP to implement a number of measures to help reduce the impact of workforce traffic as set out below: ▪ Provision of a shuttle bus service/park and ride facility during peak construction periods to transport workforce from a car parking location off-site; ▪ Construction Workers Travel Plan to encourage the use of non-car modes; and ▪ Staggered arrival/departure times wherever possible to help minimise any impacts on the local highway network during highway peak periods.	Construction	Construction Contractor	DPCD, CLP (see outline CLP) DCO Requirement 10	5.12 / 6.2.13 Appendix D/ 2.1
Section 7.2, Paragraph 7.2.1.3	Traffic disruption	New Access Road for the Project will be constructed at the start of the construction phase, to be used by construction vehicles during peak construction (thus avoiding use of Stather Road).	Construction	Construction Contractor	DPCD, CLP (see outline CLP) DCO Requirement 10	5.12 / 6.2.13 Appendix D/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.3, Paragraph 7.3.1.1	Traffic disruption	New access road to serve Flixborough Industrial Estate and Port area as well as the Project. Suitable for use of two-way heavy goods vehicles. Further prevents traffic build up on Stather Road via Neap House.	Operation	NLGEPL	DPCD, CLP (see outline CLP) DCO Requirement 10	5.12 / 6.2.13 Appendix D/ 2.1
Section 7.3, Paragraph 7.3.1.1	Traffic disruption	Stopping up the section of highway on Stather Road between Flixborough Industrial Estate and the existing surface water pumping station situated 160 metres north of Neap House.	Operation	NLGEPL	Rights of Way and Access Plans and DCO Article 13	4.3/ 2.1
Section 7.3, Paragraph 7.3.1.1	Safety	A new 3m wide pedestrian/cycle footway along the eastern side of the carriageway of the New Access Road.	Operation	NLGEPL	DPCD, Framework Travel Plan	5.12 / 6.2.13 Appendix C
Section 7.3, Paragraph 7.3.1.1	Safety	A new 3m wide shared pedestrian/cycle footway along the northern side of the B1216 Ferry Road West.	Operation	NLGEPL	DPCD, Framework Travel Plan	5.12 / 6.2.13 Appendix C/ 2.1
Section 7.3, Paragraph 7.3.1.1	Safety	A new toucan crossing facility at the A1077/B1216 Ferry Road West signal junction to enable pedestrians and cyclists to cross the A1077.	Operation	NLGEPL	Rights of Way and Access Plans Framework Travel Plan DCO Requirement 13	4.3/ 6.2.13 Appendix C/ 2.1
Section 7.3, Paragraph 7.3.1.1	Traffic disruption	Provision of on-site parking facilities in accordance with NLC's Parking Provision Guidelines. Including disabled parking and electric vehicle charging nfrastructure.	Operation	NLGEPL	Travel Plan (see also Framework Travel Plan) DCO Requirement 13	6.2.13 Appendix C/ 2.1
Section 7.3, Paragraph 7.3.1.1	Traffic disruption	A new pedestrian / cycle public right of way will be created orientated west – east, which will run from Stather Road to the New Access Road, continuing to the open land at Foxhills Plantation / Atkinson's Warren, providing a new circular walking route and connectivity between the River Trent and the northern edge of Scunthorpe.	Operation	NLGEPL	Travel Plan (see also Framework Travel Plan) DCO Requirement 13	6.2.13 Appendix C/ 2.1
Section 7.3, Paragraph 7.3.1.1	Traffic disruption	A new public right of way will be provided to the east of Flixborough Industrial Estate, connecting footpath FLIX/175 and FLIX/304, providing a new link that avoids the need for walking along Stather Road.	Operation	NLGEPL	Travel Plan (see also Framework Travel Plan) DCO Requirement 13	6.2.13 Appendix C/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.3, Paragraph 7.3.1.1	Traffic disruption	Reinstatement of the existing 6km Dragonby to Flixborough branch line and provision of continued amenity access across the branch line. This will nclude the provision of an upgrade to the existing at grade infrastructure for the footpath (FLIX175) crossing to the south west of Flixborough and re-establishment of the footpath (FLIX178) crossing to the south east of Flixborough through the provision of a pedestrian bridge. These measures are required to ensure that the crossings meet the appropriate safety standards and to reduce the risk of the public crossing the rail line once it has been re-commissioned.	Operation	NLGEPL	Travel Plan (see also Framework Travel Plan) DCO Requirement 13	6.2.13 Appendix C/ 2.1
Section 7.3, Paragraph 7.3.1.1	Traffic disruption	The construction and operation of a new railhead to the south of Flixborough Wharf, with the primary purpose of facilitating the delivery and export of materials to and from the NLGEP to reduce the need for road vehicle movements. This will also increase the capacity for trains to stand down to allow commercial trains to operate on the main lines and therefore will help to minimise rail movements overnight at the ERF.	Operation	NLGEPL	Travel Plan (see also Framework Travel Plan) DCO Requirement 13	6.2.13 Appendix C/ 2.1
Chapter 14 – Economic, Community and Land Use Impacts						
Section 7.2, Paragraph 7.2.1.3	Community disturbance	Avoiding all settlements, where practicable.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Community disturbance	Avoiding areas, where practicable, of known built development, outside of Flixborough Wharf, and permanent active uses including sport, leisure and recreational facilities, commercial and industrial uses (including retail), residential, healthcare, education, public institutions, and open space.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Community disturbance	Use of best practice methods.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Community disturbance	Implementation of a CEMP, which it is envisaged will be secured by a DCO requirement.	Construction	Construction Contractor	CEMP (see also CoCP)	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
					DCO Requirement 4	
Section 7.2, Paragraph 7.2.1.3	Economy	Local suppliers will be informed of the proposed construction works and participation of local and regional companies in the tendering process will be encouraged.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Economy	Specific provision of employment and education opportunities for the local community will be made, ncluding apprenticeship schemes, post-graduate training programmes, funded research placements and contributions to educational and vocational training.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Economy	Preparation of an Employment and Skills Policy to maximise use of local suppliers and local employment opportunities	Pre-construction	NLGEPL	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Business	Operators of nearby sensitive facilities will be nformed of construction activities that may affect their usual operations and activities, such as access, opening hours, and planned events.	Construction	Construction Contractor	CEMP (CRP or similar) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Economy	Provision of a visitor centre including community and educational facilities.	Operation	NLGEPL	Embedded Works Plans	4.4
Section 7.2, Paragraph 7.2.1.3	Economy	Provision of employment and education opportunities for the local community with apprenticeship schemes, post-graduate training programmes, funded research placements and contributions to educational and vocational training.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Dust nuisance	The adoption of measures to control the deposition of dust on adjacent open space, adjacent business premises, PRoWs, and agricultural land.	Construction	Construction Contractor	CEMP (DMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Land use / soil protection	All soil handling, placing, compaction and management will be undertaken in accordance with best practice (DEFRA, 2009); a Soil Management	Construction	Construction Contractor	CEMP (SMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		Plan (SMP) will be prepared in advance of construction to ensure protection, conservation and reinstatement of soil material, its physical and chemical properties and functional capacity for agricultural and ecological/habitat reinstatement.				
Section 7.2, Paragraph 7.2.1.3	Land use / Environmental pollution / Traffic control	Plant and traffic movements within the site will be confined to designated routes (e.g. haul routes and vehicle access routes) to minimise the potential for soil disturbance, compaction, and indirect contamination.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Land use	Reinstatement of land and soils after completion of works, in line with the principles of the Land Reinstatement Policy, unless otherwise agreed with the landowner.	Construction	Construction Contractor	CEMP (SMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Land use	The reinstatement of agricultural land, which is used temporarily during construction to agriculture, in line with the principles of the Soil Management Plan, where this is the agreed end use.	Construction	Construction Contractor	CEMP (SMP, see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Land use	Arrangements for the maintenance of farm and field accesses, land drainage and water supply where these are affected by construction.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Land use	The protection of agricultural land within the Order Limits, where adjacent to construction sites, ncluding the provision and maintenance of appropriate stock-proof fencing.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Community access	The reinstatement of open space which is used temporarily during construction.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Community access	Creation of temporary footpath diversions for affected PRoW during construction, where required.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.3	Community access	PRoW diversions/closures will be communicated to NLC and other relevant organisations, including Parish Councils. Information will include the duration of the proposed closures.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.2, Paragraph 7.2.1.3	Community access	Creation of a new footpaths and cycleways providing mproved public access in the area.	Operation	NLGEPL	Embedded Rights of Way and Access Plans	4.4
Section 7.2, Paragraph 7.2.1.3	Community access	Re-opening and reinstatement of PRoWs post construction and provision of new pedestrian crossing points (including a footbridge) at the existing ground level crossings across the railway.	Operation	NLGEPL	DPCD, Framework Travel Plan DCO Requirement 13	5.12 / 6.2.13 Appendix C/ 2.1
Section 7.2, Paragraph 7.2.1.3	Social	The areas identified for future mitigation and an area of wetlands created beside the River Trent will allow for public access and this will result in a net increase n open space provision.	Construction	Construction Contractor	DPCD ILBP DCO Requirements 3 and 6	5.12 / 4.10/ 2.1
Chapter 15 – Waste						
Section 7.2, Paragraph 7.2.1.4	Waste management	Spoil arising from the works that is classed as acceptable fill' will be used in construction works wherever practicable (dependent upon compliance with existing waste management legislation). The CL:AIRE Definition of Waste: Development Industry Code of Practice (DoW CoP) will be employed, allowing the reuse of excavated materials.	Construction	Construction Contractor	CEMP (Construction WMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.5	Waste management	The disposal of waste, including any surplus spoil, will be minimised so far as is reasonably practicable. The environmental and development benefits from the use of surplus material will be maximised in order to reduce pressure on existing disposal facilities. The DoW CoP will be employed, allowing the movement and reuse of excavated materials between different parts of the site.	Construction	Construction Contractor	CEMP (Construction WMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.6	Waste management	The WMP along with best practice measures for the minimisation and management of waste will be developed and will include an audit programme	Construction	Construction Contractor	CEMP (Construction WMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.8	Waste management	Construction waste will be segregated into different abelled bunkers or segregated spoil heaps on site to	Construction	Construction Contractor	CEMP (Construction WMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		facilitate reuse, appropriate disposal and to avoid contamination.				
Section 7.2, Paragraph 7.2.1.9	Waste management / Safety	If encountered, hazardous waste requiring special measures will be segregated from non-hazardous material, clearly labelled, stored temporarily, and handled in accordance with relevant regulations and transported by licensed waste carriers to be treated at a licensed waste facility. Where remediation is not practicable, material will be removed.	Construction	Construction Contractor	CEMP (Construction WMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.10	Waste management	Material that is considered reusable in the construction of the Project or associated works will be stockpiled in accordance with a Soil Management Plan (SMP) to be drafted and included in the CEMP.	Construction	Construction Contractor	CEMP (SMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph 7.2.1.11	Waste management	The proximity principle will be applied, whereby construction waste material unsuitable for reuse that s exported off-site will be treated or disposed of as close to the point of generation as reasonably practicable.	Construction	Construction Contractor	CEMP (Construction WMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph, 7.2.1.12	Waste management	Appropriate analysis of material that is considered reusable in the construction of the Project will be carried out to establish if it is suitable for the proposed use, does not contain material that can cause harm to human health or the environment and does not require further treatment prior to use.	Construction	Construction Contractor	CEMP (Construction WMP, SMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph, 7.2.1.13	Waste management	Concrete and demolition rubble will be assessed to establish if it can be crushed, screened, and used as recycled aggregate for backfill. Such processing may be done on or off-site by a suitable contractor.	Construction	Construction Contractor	CEMP (Construction WMP, SMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.2, Paragraph, 7.2.1.14	Waste management	Biodegradable waste from vegetation clearance and tree removal will be sent for local composting or anaerobic digestion.	Construction	Construction Contractor	CEMP (Construction WMP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7.4, Paragraph 7.4.1.1	Waste management	Best practice measures are required to minimise waste, improve reuse, recovery, and recycling, and to facilitate high standards of waste management.	Construction and Operation	Construction Contractor and NLGEPL	CEMP (Construction WMP), see also CoCP, DPCD, OEMP	6.3.7/ 5.12/ 6.3.8/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		This is in addition to specific construction and operational waste management measures.			DCO Requirement 4	
Section 7.4, Paragraph 7.4.1.2	Waste management	The waste hierarchy will be applied to reduce waste, reuse, recycle or recover materials to reduce the effects of waste generation and treatment.	Operation	NLGEPL	EP/OEMP DCO Requirement 4	6.3.8/ 2.1
Section 7.4, Paragraph 7.4.1.3	Waste management	The waste producer has a duty of care and legal responsibility to ensure that waste products are managed safely and in compliance with applicable regulations.	Operation	NLGEPL	EP/OEMP DCO Requirement 4	6.3.8/ 2.1
Section 7.4, Paragraph 7.4.1.4	Waste management	Store waste in a secure place.	Operation	NLGEPL	EP/OEMP DCO Requirement 4	6.3.8/ 2.1
Section 7.4, Paragraph 7.4.1.4	Waste management	Use suitable containers that will stop waste escaping.	Operation	NLGEPL	EP/OEMP DCO Requirement 4	6.3.8/ 2.1
Section 7.4, Paragraph 7.4.1.4	Safety	Keep liquid hazardous waste in a dedicated area, preferably inside a building with an impermeable bund or barrier to contain spills and leaks.	Operation	NLGEPL	EP/OEMP DCO Requirement 4	6.3.8/ 2.1
Section 7.4, Paragraph 7.4.1.4	Waste management	Classify waste appropriately as per the European Waste Catalogue (EWC).	Operation	NLGEPL	EP/OEMP DCO Requirement 4	6.3.8/ 2.1
Section 7.4, Paragraph 7.4.1.4	Safety	Label containers clearly with the type of waste they contain.	Operation	NLGEPL	EP/OEMP DCO Requirement 4	6.3.8/ 2.1
Section 7.4, Paragraph 7.4.1.4	Environmental pollution	Use covers to reduce rainwater contamination, waste blowing away or contamination that will reduce the opportunity for the waste to be reused.	Operation	NLGEPL	EP/OEMP DCO Requirement 4	6.3.8/ 2.1
Section 7.4, Paragraph 7.4.1.4	Contamination	Store different types of waste separately, so that they do not contaminate each other so that they can be reused more easily, and the site's operator can complete the waste transfer note correctly.	Operation	NLGEPL	EP/OEMP DCO Requirement 4	6.3.8/ 2.1
Section 7.4, Paragraph 7.4.1.4	Contamination	Prohibit the mixing of hazardous and non-hazardous waste.	Operation	NLGEPL	EP/OEMP DCO Requirement 4	6.3.8/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7.4, Paragraph 7.4.1.4	Environmental pollution	Maintain intact impermeable floors so that any spillage (solids or liquids) cannot escape and cause and or groundwater contamination, or further deterioration of floors.	Operation	NLGEPL	EP/OEMP DCO Requirement 4	6.3.8/ 2.1
Section 7.4, Paragraph 7.4.1.4	Waste management	Have sufficient space and storage systems to enable products to be segregated.	Operation	NLGEPL	EP/OEMP DCO Requirement 4	6.3.8/ 2.1
Section 7.4, Paragraph 7.4.1.4	Waste management	Abide by the maximum periods and volumes of wastes that can be temporarily stored on site prior to collection.	Operation	NLGEPL	EP/OEMP DCO Requirement 4	6.3.8/ 2.1
Section 7.4, Paragraph 7.4.1.4	Waste management	Maintain waste records for a minimum of three years ncluding the quantity, nature, origin and, where relevant, the destination, frequency of collection, mode of transport and treatment method of the waste.	Operation	NLGEPL	EP/OEMP DCO Requirement 4	6.3.8/ 2.1
Section 7.4, Paragraph 7.4.1.4	Waste management	Only use waste vendors with the appropriate permits to collect, handle, and transport and treat the waste n accordance with applicable regulations.	Operation	NLGEPL	EP/OEMP DCO Requirement 4	6.3.8/ 2.1
Chapter 16 – Major Accidents and Hazards						
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Storage of diesel during the construction phase will be carefully managed to meet secondary containment requirements.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Prior to commencement of the construction phase, a plan will be developed for management/recovery of spilt materials.	Construction	Construction Contractor	CEMP (SRP), see also CoCP DCO Requirement 4	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Utilisation of construction industry methods to assess the likelihood and mitigate against ground nstability (e.g. areas where subsidence/ground collapse would be a concern) on the construction site.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7, Paragraph 7.1.1.1, Table 3	Flood risk	The Flood Risk Assessment and construction ndustry methods will be utilised to assess the ikelihood and mitigate against flood risk on the construction site.	Construction	Construction Contractor	CEMP (Construction Flood Management Plan), see also CoCP. DCO Requirement 4	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Consult with the civil aviation authority to verify the ow density of commercial air traffic in the area.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Consult with local RAF site to verify the density of military air traffic in the area.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Adherence to industry standard demolition techniques.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Security	Adherence to CDM regulations and appropriate security measures e.g. site security presence and fencing to prevent trespassers.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Establish Construction Traffic Management Plan (CTMP) and a Construction Workers Travel Plan (CWTP) for the development with the local authority.	Construction	Construction Contractor	CEMP (Construction Traffic Management Plan), see also CoCP DCO Requirements 4 and 10	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Establish a plan to determine the risk to personnel working on the Energy Park site from nearby site Jotun Paints.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Safety	A philosophy for the storage/stock piling/control of all materials used in the construction phase will need to be developed to adhere to best environmental practice.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Carry out detailed survey of disused buildings and the site in general for the presence of asbestos contamination. If identified, risk to be managed	Construction	Construction Contractor	CEMP (Asbestos Management Plan), see also CoCP DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
		according to the requirements of the Control of Asbestos Regulations 2012.				
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Ensure Energy Park is designed to relevant standards to maintain containment (including firewalls around the Hydrogen storage area).	Operation	NLGEPL	DPCD Document DCO Requirement 3	5.12/ 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Process Design will include provision for members of the public to be kept at a safe distance from nventories of dangerous substances.	Operation	NLGEPL	DPCD Document DCO Requirement 3	5.12/ 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Design layout of the NLGEP to keep members of the public as far away as possible from potential flammable gas (or other gas) leak points.	Operation	NLGEPL	DPCD Document DCO Requirement 3	5.12/ 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Within the COMAH pre-construction safety report (if required), identify listed buildings in the area that could be damaged by a loss of containment (LoC) event. Design can be modified to move the location of the flammable gas inventory or protect the listed building if a problem is identified. (Note that Pre-construction Safety Report is outwith the DCO and is secured by separate legislation, namely the Control Of Major Accident Hazards Regulations 2015 (COMAH), with approval by the Health and Safety Executive as the COMAH Competent Authority).	Operation	NLGEPL	Pre-construction Safety Report (if required) approved by HSE	N/A
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Within the COMAH pre-construction safety report (if required) identify environmental receptors (ecological sites/watercourses) that could be mpacted by a LoC event. (Note that Pre-construction Safety Report is outwith the DCO and is secured by separate legislation, namely the Control Of Major Accident Hazards Regulations 2015 (COMAH), with approval by the Health and Safety Executive as the COMAH Competent Authority).	Operation	NLGEPL	Pre-construction Safety Report (if required) approved by HSE	N/A
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Emergency plans for identified MAH scenarios to be developed as part of the COMAH pre-construction safety report (if required) and updated for the operational phase.	Operation	NLGEPL	Pre-construction Safety Report (if required) approved by HSE	N/A

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Produce a detailed engineering design incorporating a demonstration of adoption of accepted good engineering practices for hazardous systems ncluding formal hazard identification.	Operation	NLGEPL	Pre-construction Safety Report (if required) approved by HSE as the COMAH Competent Authority	N/A
Section 7, Paragraph 7.1.1.1, Table 3	Flood risk	Flood management plan to be developed (see also Flood Risk Assessment).	Operation	NLGEPL	CEMP Flood Management Plan, see also CoCP DCO Requirement 12	6.3.7/ 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Adherence to appropriate security measures e.g. site security presence and fencing to prevent trespassers.	Operation	NLGEPL	DPCD DCO Requirement 3	5.12 / 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Design will avoid having gas pipework/equipment close to railway lines.	Operation	NLGEPL	DPCD DCO Requirement 3	5.1/ 2.1
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Establish a plan during detailed design to determine the risk to personnel working on the NLGEP site from nearby site Jotun Paints.	Operation	NLGEPL	Pre-construction Safety Report (if required) approved by HSE as the COMAH Competent Authority	N/A
Section 7, Paragraph 7.1.1.1, Table 3	Safety	Storage of materials with the potential to have an adverse effect on the environment will need to be carefully controlled during the operational phase.	Operation	NLGEPL	DPCD DCO Requirement 3	5.12/ 2.1
Chapter 17 – Health [(1)]						
Section 5.1.2, Paragraph 5.1.2.11	Health and Safety	Adherence to relevant restrictions and guidance in relation to Covid management and prevention will be ntegrated into the CEMP and will also be communicated to the public to mitigate potential anxiety in relation to this issue	Construction	Construction Contractor	CEMP (see also CoCP) CEMP (CRP or similar) DCO Requirement 4	6.3.7/ 2.1
Section 5.1.2, Paragraph 5.1.2.15	Health and Safety	To mitigate effects on human health, a proactive and ongoing programme of engagement and information dissemination will be undertaken, including use of scientific and third-party sources to provide objective nformation into the public domain.	Pre-construction onwards	NLGEPL	CEMP (CRP or similar) DCO Requirement 4	6.3.7/ 2.1

ES Paragraph Reference	Type of Impact	Mitigation Measure	Project Stage	Responsibility	Securing Mechanism	DCO Document Reference
Section 5.1.3, Paragraph 5.1.3.29	Health and Safety	Engagement and ongoing communication with local communities will be an important mitigation measure to reduce anxiety associated with construction activity. The engagement will include the establishment of a hotline or contact point for residents to report noise disturbance (or any other construction-related issues).	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 5.1.4, Paragraph 5.1.4.2	Health and Safety	Acknowledging and proactively addressing public perceptions, will mitigate negative perceptions of the area and impacts on social capital.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 5.1.4, Paragraph 5.1.4.3	Health and Safety	Advance communication of proposed construction works, and liaison with local communities during construction activity.	Construction	Construction Contractor	CEMP (see also CoCP) DCO Requirement 4	6.3.7/ 2.1
Section 5.1.5, Paragraph 5.1.5.2	Health and Safety	Loss of jobs will be mitigated by early engagement with the relevant businesses and relocation costs being covered by the compensation code n.	Pre-construction	NLGEPL	CEMP (see also CoCP) DCO Requirement 4 Compensation code	6.3.7/ 2.1
Section 5.1.6, Paragraph 5.1.6.4	Health and Safety	The deployment of a Community Liaison Officer (or similar), publication of the CEMP, the adoption of a hotline or alternative contact mechanisms for residents and advance notification of proposed construction works, amongst other measures.	Construction	Construction Contractor	CEMP (see also CoCP) (CRP or similar) DCO Requirement 4	6.3.7/ 2.1

(1) Chapter 17 Health refers to various mitigation measures that are detailed under other topics (air, noise etc) and accordingly secured appropriately; these measures and their securing mechanisms are not repeated here.

Table 2 Securing Mechanisms for Mitigation

Included as ES or other DCO Document	Securing mechanism	Approval	When
Code of Construction Practice and outline plans: ▪ Dust Management Plan ▪ Spill Response Plan ▪ Asbestos Management Plan ▪ Remediation Strategy ▪ Construction Flood Management Plan ▪ Construction Waste Management Plan; ▪ Protected Species Management Plan ▪ Invasive Non-Native Species (INNS) Management Plan ▪ Soil Management Plan ▪ Community Relations Plan (or similar)	DCO Requirement 4	CEMP to be approved by NLC, with inputs from other consultees as required	Before commencement of development save for the permitted preliminary development works
As above to the extent relevant	DCO Requirement 4	Permitted Preliminary Development	Before commencement of the permitted

Included as ES or other DCO Document	Securing mechanism	Approval	When
		Works (PPDW) CEMP to be approved by NLC, with inputs from other consultees as required.	preliminary development works
Indicative Landscape and Biodiversity Plan	DCO Requirement 6	Landscaping Scheme to be approved by NLC	Prior to commencement of the Energy Park or Railway Reinstatement works
Outline Landscape and Biodiversity Management and Monitoring Plan	DCO Requirement 7	LBMMP to be approved by NLC	Prior to the operation of the Energy Park or Railway Reinstatement works
Indicative Surface Water Drainage Plan	DCO Requirement 8	Details of the permanent surface water drainage systems to be approved by NLC	Before commencement of the Energy Park save for the permitted preliminary works
Indicative Surface Water Drainage Plan	DCO Requirement 9	Details of the permanent foul water drainage systems to be approved by NLC	Before commencement of the Energy Park save for the permitted preliminary works
Outline Construction Logistics Plan	DCO Requirement 10	Construction traffic management plan to be approved by NLC	Prior to commencement of any part of the authorised development, save for the permitted preliminary works
Outline Construction Logistics Plan	DCO Requirement 10	Construction workers travel plan to be approved by NLC	Prior to commencement of any part of the authorised development, save for the permitted preliminary works

Included as ES or other DCO Document	Securing mechanism	Approval	When
Outline Construction Waste Management Plan (see CoCP)	DCO Requirement 4	Construction Waste Management Plan to be approved by NLC	Prior to commencement of any phase of the authorised development, save for the permitted preliminary works
Outline OEMP	DCO Requirement 4	Operational Environmental Management Plan to be approved by NLC	Prior to any part of the Energy Park being brought into operation
Operational environmental management issues relating to activities falling under the remit of the Environmental Permit (see Section 1.3 of this chapter)	Environmental Permitting (England and Wales) Regulations 2016	The Environmental Permit application will be approved by Environment Agency	Prior to commissioning of any part of the authorised development that requires an Environmental Permit
Archaeological investigations and mitigation measures (see CoCP)	DCO Requirement 11	WSIs and written scheme of mitigation measures to be approved by NLC	Prior to commencement of any phase of the authorised development
Outline Remediation Strategy (see CoCP)	DCO Requirement 4	Scheme for investigation of the nature and extent of any contamination on the site to be approved by NLC	Prior to commencement of any part of the authorised development, save for the permitted preliminary works
Outline Construction Flood Management Plan (see CoCP)	DCO Requirement 4	Construction flood management plan to be approved by NLC [in consultation with EA]	Prior to commencement of any part of the authorised development, save for the permitted preliminary works
Flood Risk Assessment (FRA)	DCO Requirement 12	Flood management plan, which	Prior to any part of the Energy Park being commissioned

Included as ES or other DCO Document	Securing mechanism	Approval	When
		includes an evacuation route plan and flood resilience implementation plan to be approved by NLC [in consultation with EA]	
Framework Travel Plan	DCO Requirement 13	Travel plan to be approved by NLC	Prior to any part of the Energy Park coming into operation
Public health	DCO Requirement 4	Community Relations Plan or similar to be included in the CEMP to be approved by NLC	Prior to commencement of any part of the authorised development