



# **Preliminary Environmental Information Report Volume 1**

## **Chapter 29 Summary of Likely Significant Effects**

LLK1-ARU-REP-ENV-000020

Version 0.0

January 2026

**LionLink:**

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# Glossary of Project Terminology

This Glossary has been provided to define terms used across a number of the LionLink Proposed Scheme documents.

Abbreviations contained herein are provided at the end of the document in the **Topic Glossary and Abbreviations**.

| Term                                       | Description   |
|--|---|
| Amendment to Kiln Lane Substation Scenario | The scenario where the Proposed Scheme will comprise the amendments to Kiln Lane Substation that would be required if Kiln Lane Substation was built out pursuant to the EA1N/EA2 DCOs.   |
| Applicant, the                             | National Grid Lion Link Limited (NGLLL)   |
| Bellmouth                                  | A flared vehicular access/egress point connecting permanent route to the public highway.  |
| Converter Station                          | A converter station changes electricity between High Voltage Alternating Current (HVAC), which power our homes, and High Voltage Direct Current (HVDC) which is more efficient for transporting electricity over long distances and vice versa. The proposed Converter Station is located to the east of Saxmundham.  |
| Converter Station Site                     | The Converter Station Site as a whole, allowing for the co-location of the Converter Station with the Converter Station being separately consented as part of the Sea Link project.   |
| Co-ordination                              | The process of people or entities working together.   |
| Co-location                                | Where different elements of a project, or various projects, are located in one place.   |
| Construction Compound                      | Temporary compounds installed during the construction phase of the Proposed Scheme. Each compound is likely to contain storage areas such as laydown areas, soils storage, and areas for equipment and fuel, drainage, generators, car parking and offices and welfare areas (portacabins).   |
| Development Consent Order (DCO)            | An order made by the Secretary of State pursuant to the Planning Act 2008 (as amended) granting development consent for a Nationally Significant Infrastructure Project. It grants consent to develop the approved project and may include (among other things) powers to compulsorily acquire land and rights where required and deemed marine licences for any offshore works.  |
| Draft Order Limits                         | The area of land identified as being subject to the DCO application. The Draft Order Limits are made up of the land required both temporarily and permanently to allow for the construction, operation and maintenance, and decommissioning of the Proposed Scheme. All onshore parts of the Proposed Onshore Scheme are located within England and offshore parts of the Proposed Offshore Scheme are located within English territorial waters to 12 Nautical |

| Term  | Description   |
|---|---|
|   | Miles and then up to the United Kingdom (UK) Exclusive Economic Zone (EEZ) boundary at sea.   |
| Dutch Offshore Components                       | Is the term used when referring to the offshore elements of the Project within Dutch waters.  |
| Eastern Route Option                            | As part of the Underground HVDC cable corridor, the Eastern Route Option would facilitate a degree of co-location with the Sizewell Link Road (SLR) scheme.   |
| Environmental Impact Assessment (EIA)           | The EIA is a systematic regulatory process that assesses the potential likely significant effects of a proposed project or development on the environment.  |
| EIA Scoping Report                              | An EIA scoping report defines the proposed scope and methodology of the EIA process for a particular project or development. The EIA Scoping Report for the Proposed Scheme was submitted to the Planning Inspectorate with a request for the Secretary of State to adopt a scoping opinion in relation to the Proposed Scheme on 6 March 2024.                             |
| Environmental Statement (ES)                    | The ES is a document that sets out the likely significant effects of the project on the environment. The ES is the main output from the EIA process. The ES is published as part of the DCO application.  |
| Exclusive Economic Zone (EEZ)                   | The zone in which the coastal state exercises the rights under Part V of the United Nations Convention on the Law of the Sea. These rights relate principally to the water column and may extend to 200 nautical miles from baselines. This is distinct from territorial waters, which for the UK extend 12 nautical miles from the coast.                                  |
| Full Build Out of Kiln Lane Substation Scenario | The scenario if the Proposed Scheme was brought forward first, then it would be responsible for developing Kiln Lane Substation for the Proposed Scheme, with sufficient additional capacity for other projects.  |
| Joint Bay                                       | Underground structures constructed at regular intervals along the onshore cable route to join sections of cable and facilitate installation of the cables into the buried ducts.  |
| Kiln Lane Substation                            | The proposed connection point for the Project to the British National Electricity Transmission System, located to the north of Friston. Formerly known as Friston Substation. The new name has recently been adopted by NGET. The substation is of the same footprint and in the same location. Friston Substation will, hereafter, be referred to as Kiln Lane Substation. |
| Landfall  | The proposed Landfall is where the proposed offshore HVDC Submarine Cables are brought ashore and meets with the onshore proposed Underground HVDC Cables. This includes the Transition Joint Bay (TJB). The proposed Landfall will be located at Walberswick, and there will be no permanent above ground infrastructure at the proposed Landfall.                         |
| Landfall Site                                   | The area where the Landfall may be located.   |

| Term  | Description   |
|---|---|
| Limit of Deviation                                    | A maximum distance or measurement of variation within which the works must be constructed. These are lateral (i.e. on the ground) and vertical limits (in relation to height).  |
| Link Box Chamber                                      | Link boxes are used at joint bays to facilitate grounding connections to ensure safety and enable maintenance. Link boxes can either be installed below ground, in a link box chamber, or in an above ground link pillar  |
| Multi-purpose interconnector (MPI)                    | A project where GB interconnection is combined with transmission of offshore generation within GB (and optionally within a connecting state).   |
| National Grid Electricity Distribution (NGED)         | The local distribution network operator for the Midlands, the southwest of England and south Wales.   |
| National Grid Electricity Transmission (NGET)         | Operators of the national electricity transmission network across Great Britain and own and maintain the network in England and Wales, providing electricity supplies from generating stations to local distribution companies. National Grid does not distribute electricity to individual premises, but its role in the wholesale market is vital to ensuring a reliable, secure and quality supply to all. |
| National Grid Lion Link Limited (NGLL)                | The Applicant, a joint venture between National Grid Ventures and TenneT. NGLL is a business within the wider National Grid Ventures portfolio.   |
| National Grid Strategic Infrastructure (NGSI)         | Part of NGET and responsible for delivering major strategic UK electricity transmission projects, focussed on connecting more clean, low-carbon power to England and Wales.   |
| National Grid Ventures (NGV)                          | Operates and invests in energy projects, technologies and partnerships to accelerate the development of a clean energy future. This includes interconnectors (such as the LionLink Project), allowing trade between energy markets and the efficient use of renewable energy resources.   |
| Nationally Significant Infrastructure Projects (NSIP) | Major infrastructure developments in England and Wales for which development consent is required, as defined within Section 14 of the Planning Act 2008 (as amended). This includes any development which is subject to a direction by the relevant Secretary of State pursuant to Section 35 of the Planning Act 2008.   |
| Non-standard interconnector (NSI)                     | A project where GB interconnection is combined with transmission of offshore generation outside of GB.  |
| Northern Route Option                                 | A northern cable corridor option that would allow Underground HVAC Cable delivery for Proposed Scheme only.   |
| Offshore Hybrid Asset (OHA)                           | A project that combines cross-border interconnection with the transmission of offshore generation, this is an overarching term which covers both multi-purpose interconnectors (MPI) and non-standard interconnectors (NSI).  |
| Order Limits  | The maximum extent of land within which the Proposed Scheme may take place, as consented.   |

| Term  | Description  |
|---|--|
| Outline Offshore Construction Environmental Management Plan (Outline Offshore CEMP) | Describes the control measures and standards proposed to be implemented to provide a consistent approach to the environmental management of the construction activities of the Proposed Offshore Scheme.   |
| Outline Onshore Code of Construction Practice (Outline Onshore CoCP)                | Describes the control measures and standards proposed to be implemented to provide a consistent approach to the environmental management of the construction activities of the Proposed Onshore Scheme.  |
| Overhead Lines (OHL)  | Conductors (wires) carrying electric current, strung from Tower to Tower.  |
| Planning Act 2008   | The Planning Act 2008 being the relevant primary legislation for national infrastructure planning.   |
| Planning Inspectorate (PINS)  | The Planning inspectorate review DCO applications and make a recommendation to the Secretary of State, who will then decide whether to approve the DCO.  |
| Preliminary Environmental Information Report (PEIR)                                 | The PEIR is a document, compiled by the Applicant, which presents preliminary environmental information, as part of the statutory consultation process. This is defined by the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 as containing information which "is reasonably required for the consultation bodies to develop an informed view of the likely significant environmental effects of the development (and of any associated development)" (Section 12 2. (b)). |
|   | This PEIR describes the Proposed Scheme, sets out preliminary findings of the EIA undertaken to date, and the mitigation measures proposed to reduce effects. The PEIR is published at Statutory Consultation stage for information and feedback.  |
| Project (the)   | The LionLink Project (hereafter referred to as the 'Project') is a proposal by National Grid Lion Link Limited (NGLL) and TenneT. The Project is a proposed electricity link between Great Britain (GB) and the Netherlands with a capacity of up to 2.0 gigawatts (GW) of electricity and will connect to Dutch offshore wind via an offshore platform in Dutch waters.   |
|   | The Project is the collective term used to refer to the proposal for all aspects (onshore and offshore) of the proposed interconnector between GB and the Netherlands.   |
| Proposed Offshore Scheme  | The term used when referring to the offshore elements of the Proposed Scheme, seaward of the mean high-water springs to the EEZ boundary at sea.   |
| Proposed Onshore Scheme   | The term used when referring to the onshore elements of the Proposed Scheme, landward of the mean low water springs. Proposed Onshore Scheme components include:   |

| Term  | Description  |
|---|--|
|   | <ul style="list-style-type: none"> <li>a) Kiln Lane Substation.</li> <li>b) Underground High Voltage Alternating Current (HVAC) Cables;</li> <li>c) Converter Station.</li> <li>d) Underground High Voltage Direct Current (HVDC) Cables; and</li> <li>e) Landfall.</li> </ul>   |
| Proposed Scheme   | <p>Used when referring to the GB scheme components of the Project, not including Dutch components. This includes both the onshore and offshore scheme components which are within UK territorial waters and up to the UK EEZ boundary at sea.</p>  |
| Rochdale Envelope   | <p>The Rochdale Envelope or Design Envelope approach is employed where the nature of a proposed development means that some details of a project are not available in advance of, or at the time of submitting the DCO application. The Rochdale Envelope approach defines a design envelope and parameters within which the final design will sit and ensures a robust and reliable EIA can be undertaken.</p>      |
| Scoping Opinion   | <p>A scoping opinion is requested from the Planning Inspectorate on behalf of the Secretary of State, to inform the requirements of EIA process and ultimately the ES which will be submitted as part of the application for development consent. Through the scoping process, the views of the statutory consultees and other relevant organisations on the proposed scope of the EIA are sought.</p>               |
|   | <p>A Scoping Opinion for the Proposed Scheme was issued by the Planning Inspectorate (on behalf of the Secretary of State) on 16 April 2024. The Applicant received a separate EIA Scoping Opinion from the Marine Management Organisation (MMO) (Reference DCO/2024/00005, dated 04 September 2024) as the MMO were unable to provide opinion to the Planning Inspectorate in time for the April 2024 deadline.</p> |
| Scottish Power Renewables (SPR) East Anglia One North (EA1N) and East Anglia 2 (EA2) Consents (SPR EA1N and EA2 Consents) | <p>The Orders made following the Scottish Power Renewables applications for development consent for the following projects:</p> <ul style="list-style-type: none"> <li>a) The East Anglia ONE North Offshore Wind Farm Order 2022; and</li> <li>b) East Anglia TWO Offshore Wind Farm Order 2022</li> </ul>  |
| Southern Route Option   | <p>A southern cable corridor option that would allow:</p> <ul style="list-style-type: none"> <li>a) Underground HVAC Cable delivery for Proposed Scheme only, or</li> <li>b) Underground HVAC Cable delivery for Proposed Scheme and ducting for Sea Links Underground HVAC and HVDC cables in that section.</li> </ul>  |
| Statutory Consultation  | <p>Consultation undertaken with the community and stakeholders in advance of the application for development consent being submitted to the Planning Inspectorate, on behalf of the Secretary of state, in accordance with the PA 2008.</p>  |

| Term   | Description   |
|--|---|
| Substation   | Substations are used to control the flow of power through the electricity system. They are also used to change (or transform) the voltage from a higher to lower voltage to allow it to be transmitted to local homes and businesses. |
| TenneT   | Operator of the electricity transmission network across the Netherlands.  |
| Tower  | A structure used to carry overhead electrical conductors, insulators, and fittings. Often described as a pylon.   |
| Transition Joint Bay (TJB)   | An underground structure at the Landfall Site that house the joints between the offshore cables and the onshore cables.   |
| Underground Cable Corridors  | Collective term for the corridors within which HVAC and HVDC cables are planned.  |
| Underground High Voltage Alternating Current (HVAC) Cable Corridor | A corridor in which the underground HVAC cables are planned to be installed.  |
| Underground High Voltage Alternating Current (HVAC) Cables         | Transmission cables which connect between the Converter Station and Substation. HVAC cables are designed to manage fluctuating flow of current.   |
| Underground High Voltage Direct Current (HVDC) Cable Corridor      | A corridor in which the underground HVDC cables are planned to be installed.  |
| Underground High Voltage Direct Current (HVDC) Cables              | Transmission cables which connect the Converter Station to the Landfall Site and then offshore. HVDC cables are designed to manage current flowing in one direction.  |
| Visibility Splay   | An area of land at a road junction that ensures drivers have an unobstructed view of oncoming traffic allowing them to safely join or cross the road.   |
| Western Route Option   | As part of the Underground HVDC cable corridor, the Western Route Option would deliver the Scheme within its own corridor with no co-location with the Sizewell Link Road (SLR) scheme.   |

# 29 Summary of Likely Significant Effects

## 29.1 Introduction

29.1.1 This chapter summarises the preliminary likely significant effects that are anticipated from the Proposed Scheme as identified within the Preliminary Environmental Information Report (PEIR), the proposed mitigation and the likely residual effects following the implementation of the additional mitigation.

## 29.2 Likely Significant Effects

29.2.1 **Table 29.1** summarises the potential for likely significant effects during construction, operation and maintenance, and decommissioning of the Proposed Scheme. Where residual effects are anticipated to be significant, these are highlighted in **bold** text.

29.2.2 No likely significant effects have been identified for:

- a. Chapter 7 Air Quality;
- b. Chapter 9 Geology and Contamination;
- c. Chapter 12 Hydrology, Hydrogeology, and Drainage;
- d. Chapter 14 Material Assets and Waste;
- e. Chapter 18 Marine Physical Environment;
- f. Chapter 19 Intertidal and Subtidal Benthic Ecology;
- g. Chapter 20 Fish and Shellfish;
- h. Chapter 22 Marine Mammals;
- i. Chapter 23 Shipping and Navigation;
- j. Chapter 24 Commercial Fisheries;
- k. Chapter 25 Other Marine Users;
- l. Chapter 26 Marine Archaeology;
- m. Chapter 27 Climate Change; and
- n. Chapter 28 Cumulative Effects.

29.2.3 Further work will continue to be undertaken to further the Environmental Impact Assessment which will be reported in the Environmental Statement (ES) to be submitted with the application for development consent.

**Table 29.1: Summary of Likely Significant Effects of the Proposed Scheme**

| Proposed Scheme Phase                        | Receptor   | Environmental effect without further mitigation | Additional mitigation   | Residual effect post additional mitigation |  |  |  |  |
|--|--|---|---|--|--|--|--|--|
| <b>Proposed Onshore Scheme</b>               |  |   |   |  |  |  |  |  |
| <b>Chapter 6 Agricultural land and soils</b> |  |   |   |  |  |  |  |  |
| Construction                                 | Best Most Versatile (BMV) agricultural land  | Moderate Adverse (significant)                  | Construction phasing and design. Securing mechanism will be determined at ES stage. | <b>Moderate Adverse (significant)</b>      |  |  |  |  |
| Construction                                 | Best Most Versatile (BMV) agricultural land  | Moderate Adverse (significant)                  | Detailed design to minimise use of BMV land.  | <b>Moderate Adverse (significant)</b>      |  |  |  |  |
| Construction                                 | Soil Resources   | Moderate or Major Adverse (significant)         | Outline Soil Resources Management Plan. Securing mechanism to be defined at ES.     | <b>Minor Adverse (not significant)</b>     |  |  |  |  |
| Operation and maintenance                    | N/A (operation and maintenance has been scoped out of the EIA for this discipline) |   |   |  |  |  |  |  |
| Decommissioning                              | No significant effects identified.   |   |   |  |  |  |  |  |
| <b>Chapter 7 Air quality</b>                 |  |   |   |  |  |  |  |  |
| No significant effects identified.           |  |   |   |  |  |  |  |  |
| <b>Chapter 8 Ecology and biodiversity</b>    |  |   |   |  |  |  |  |  |

| Proposed Scheme Phase | Receptor  | Environmental effect without further mitigation   | Additional mitigation  | Residual effect post additional mitigation   |
|-----------------------|---|---|--|--|
| Construction          | Habitats within and surrounding Harris's Belt and Pit | <p>Habitat loss of ecologically valuable line of trees – adverse effect at Local scale (Minor effect – <b>significant</b>) Applies to both delivery Scenarios for the proposed Underground HVAC Cable Corridor.</p> | <p>The effects cannot be readily mitigated. As such, compensation measures are being developed as part of the EIA to minimise effects as far as possible</p> | <p>Adverse effect at Local scale, (<b>Minor effect</b>) which is <b>significant</b>.</p>     |
| Construction          | River Fromus and associated habitats                  | <p>Habitat loss of HPI woodland - adverse effect at County scale (Moderate effect – <b>significant</b>). Applies to both delivery Scenarios and unaffected by options.</p>  | <p>The effects cannot be readily mitigated. As such, compensation measures are being developed as part of the EIA to minimise effects as far as possible</p> | <p>Adverse effect at County scale, (<b>Moderate effect</b>) which is <b>significant</b>.</p> |
| Construction          | Habitats between Moat Road and Pretty Road            | <p>Habitat loss of ecologically valuable line of trees – adverse effect at Local scale (Minor effect – <b>significant</b>). Applies to both delivery Scenarios and unaffected by options.</p>                       | <p>The effects cannot be readily mitigated. As such, compensation measures are being developed as part of the EIA to minimise effects as far as possible</p> | <p>Adverse effect at Local scale, (<b>Minor effect</b>) which is <b>significant</b>.</p>     |
| Construction          | Other ancient and veteran trees                       | <p>Deterioration and potential indirect loss of veteran trees – adverse effect at National scale (Major effect – <b>significant</b>).</p>   | <p>Bespoke tree management and protection measures. Securing</p>   | <p>Not significant</p>   |

| Proposed Scheme Phase | Receptor  | Environmental effect without further mitigation   | Additional mitigation   | Residual effect post additional mitigation   |
|-----------------------|---|---|---|--|
|                       |   | Applies to both delivery Scenarios and unaffected by options.   | mechanism will be determined at ES stage.   |  |
| Construction          | Other hedgerows and tree lines                        | Habitat loss of ecologically valuable line of trees and mature trees within hedgerows - adverse effect at County scale (Moderate effect – <b>significant</b> ). Applies to both delivery Scenarios and unaffected by options. | The effects cannot be readily mitigated. As such, compensation measures are being developed as part of the EIA to minimise effects as far as possible | Adverse effect at County scale, ( <b>Moderate effect</b> ) <b>which is significant</b> . |
| Construction          | Bats (Annex II species)                               | Loss of foraging and commuting habitat at Kiln Lane Substation - adverse effect at Local scale (Minor effect – <b>significant</b> ). Applies to Full Build Out of Kiln Lane Substation Scenario only.                         | Habitat creation around Kiln Lane Substation. Securing mechanism will be determined at ES stage.  | Not significant  |
| Construction          | Bats (non-Annex II species categorised as widespread) | Loss of foraging and commuting habitat at Kiln Lane Substation - adverse effect at Local scale (Minor effect – <b>significant</b> ). Applies to Full Build Out of Kiln Lane Substation Scenario only.                         | Habitat creation around Kiln Lane Substation. Securing mechanism will be determined at ES stage.  | Not significant  |
| Construction          | Bats (non-Annex II species categorised as widespread) | Loss of foraging and commuting habitat to east of the proposed Converter Station - adverse effect at Local scale (Minor effect - <b>significant</b> ). Applies to both  | Habitat creation at the proposed Converter Station Site. Securing mechanism will be   | Not significant  |

| Proposed Scheme Phase     | Receptor   | Environmental effect without further mitigation  | Additional mitigation   | Residual effect post additional mitigation |
|---------------------------|--|--|---|--|
|                           |  | delivery Scenarios but Northern Route option for the proposed Underground HVAC Cable Corridor only.  | determined at ES stage.   |  |
| Construction              | Breeding birds associated with farmland habitats | Loss of breeding habitat for skylark and yellow wagtail - adverse effect at Local scale (Minor effect <b>significant</b> ). Applies to both delivery scenarios and unaffected by options.                  | Habitat creation within and adjacent to the proposed Converter Station Site. Securing mechanism will be determined at ES stage.                       | Not significant                            |
| Construction              | Water vole associated with the River Fromus      | Loss/fragmentation of water vole habitat - adverse effect at Local scale (Minor effect – <b>significant</b> ). Applies to both delivery Scenarios and unaffected by options.                               | Habitat creation adjacent to River Fromus and provision of mammal ledge within culvert. Securing mechanism will be determined at ES stage.            | Not significant                            |
| Operation and maintenance | Bats (Annex II species)                          | Disturbance of bats through illumination of foraging and commuting habitat at Kiln Lane Substation adverse effect at Local scale (Minor effect – <b>significant</b> ). Applies to both delivery scenarios. | Sensitive lighting strategy to maintain dark east to west corridor for bat foraging and commuting. Securing mechanism will be determined at ES stage. | Not significant                            |

| Proposed Scheme Phase                      | Receptor  | Environmental effect without further mitigation      | Additional mitigation          | Residual effect post additional mitigation           |  |  |  |  |
|--|---|--|--------------------------------|--|--|--|--|--|
| Decommissioning                            | Effects associated with the decommissioning phase are not anticipated to be greater in magnitude than those identified at the construction phase. |  |                                |  |  |  |  |  |
| <b>Chapter 9 Geology and contamination</b> |   |  |                                |  |  |  |  |  |
| No significant effects identified.         |   |  |                                |  |  |  |  |  |
| <b>Chapter 10 Health and wellbeing</b>     |   |  |                                |  |  |  |  |  |
| Construction                               | Environmental amenity (proposed Landfall Site)  | <b>Moderate, adverse and temporary (significant)</b> | None identified at this stage. | <b>Moderate, adverse and temporary (significant)</b> |  |  |  |  |
| Construction                               | Housing (proposed Landfall Site)  | <b>Moderate, adverse and temporary (significant)</b> | None identified at this stage. | <b>Moderate, adverse and temporary (significant)</b> |  |  |  |  |
| Construction                               | Housing – vulnerable groups (proposed Landfall Site)  | <b>Major, adverse and temporary (significant)</b>    | None identified at this stage. | <b>Major, adverse and temporary (significant)</b>    |  |  |  |  |
| Construction                               | Access to community facilities (proposed Landfall Site)   | <b>Moderate, adverse and temporary (significant)</b> | None identified at this stage. | <b>Moderate, adverse and temporary (significant)</b> |  |  |  |  |
| Construction                               | Access to community facilities – vulnerable groups (proposed Landfall Site)   | <b>Moderate, adverse and temporary (significant)</b> | None identified at this stage. | <b>Moderate, adverse and temporary (significant)</b> |  |  |  |  |
| Operation and Maintenance                  | N/A (this phase of the Proposed Scheme has been scoped out of the EIA for this discipline)  |  |                                |  |  |  |  |  |
| Decommissioning                            | Effects identified during the construction phase are likely to mirror the decommissioning phase.  |  |                                |  |  |  |  |  |
| <b>Chapter 11 Historic environment</b>     |   |  |                                |  |  |  |  |  |
| Construction                               | Hurts Hall (National Heritage List for  | <b>Moderate adverse (significant)</b>                | Mitigation measures (including | <b>Moderate adverse (significant)</b>                |  |  |  |  |

| Proposed Scheme Phase | Receptor                          | Environmental effect without further mitigation | Additional mitigation   | Residual effect post additional mitigation |
|-----------------------|-----------------------------------|---|---|--|
|                       | England (NHLE 1268178)            |   | landscaping proposals) are still under development at this stage and not included as part of the preliminary assessment.                                |  |
| Construction          | Church of St Mary (NHLE 1287864)  | <b>Moderate adverse (significant)</b>           | Mitigation measures (including landscaping proposals) are still under development at this stage and not included as part of the preliminary assessment. | <b>Moderate adverse (significant)</b>      |
| Construction          | Woodside Farmhouse (NHLE 1215744) | <b>Moderate adverse (significant)</b>           | Mitigation measures (including landscaping proposals) are still under development at this stage and not included as part of the preliminary assessment. | <b>Moderate adverse (significant)</b>      |
| Construction          | High House Farm (NHLE 1216049)    | <b>Moderate adverse (significant)</b>           | Mitigation measures   | <b>Moderate adverse (significant)</b>      |

| Proposed Scheme Phase                                  | Receptor   | Environmental effect without further mitigation         | Additional mitigation   | Residual effect post additional mitigation |
|--|--|---|---|--|
|  |  |   | (including landscaping proposals) are still under development at this stage and not included as part of the preliminary assessment.                     |  |
| Construction   | Little Moor Farm (NHLE: 1215743)                                   | <b>Moderate adverse (significant)</b>                   | Mitigation measures (including landscaping proposals) are still under development at this stage and not included as part of the preliminary assessment. | <b>Moderate adverse (significant)</b>      |
| Construction   | Archaeological remains within all parts of the Draft Order Limits. | <b>Negligible adverse – major adverse (significant)</b> | Implementation of agreed scheme of archaeological mitigation (excavation/monitoring)  | Minor Adverse (not significant)            |
| Operation  | No significant effects identified.                                 |   |   |  |
| Decommissioning  | No significant effects identified.                                 |   |   |  |
| <b>Chapter 12 Hydrology, hydrogeology and drainage</b> |  |   |   |  |
| No significant effects identified                      |  |   |   |  |

| Proposed Scheme Phase                              | Receptor                                       | Environmental effect without further mitigation  | Additional mitigation  | Residual effect post additional mitigation |
|--|--|--|------------------------|--|
| <b>Chapter 13 Landscape and Visual<sup>1</sup></b> |  |  |                        |  |
| Construction                                       | B3 Yox Valley                                  | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)            |
| Construction                                       | B4 Fromus Valley                               | <b>HVAC option 1 and 2: Moderate adverse (significant)</b>                             | N/A – see footnote one | Minor adverse (not significant)            |
| Construction                                       | D2 Westwood and Dingle Marshes                 | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)            |
| Construction                                       | F2 Southwold Coast                             | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)            |
| Construction                                       | K2 Dunwich and Westleton Sandlands             | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)            |
| Construction                                       | K3 Aldringham and Friston Sandlands            | Amendments to Kiln Lane Substation Scenario: <b>Moderate adverse (significant)</b>     | N/A – see footnote one | Minor adverse (not significant)            |
| Construction                                       | K3 Aldringham and Friston Sandlands            | Full Build Out of Kiln Lane Substation Scenario: <b>Moderate adverse (significant)</b> | N/A – see footnote one | Minor adverse (not significant)            |
| Construction                                       | L1 Heveningham and Knodishall Estate Claylands | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)            |

<sup>1</sup> Where 'N/A' is described under the 'additional mitigation' column for Landscape and Visual, all mitigation relating to the construction phase are considered to be control measures. Furthermore, as likely significant effects on landscape and visual receptors would occur during construction of the Proposed Scheme, monitoring of these effects would be undertaken. The implementation of the mitigation planting would be monitored by the Applicant during the works to ensure that best practice relating to ground preparation, plant handling and planting techniques are followed. This monitoring would be undertaken in accordance with the measures set out within the Outline Landscape Environment Management Plan (LEMP), which would be submitted with the application for development consent. For the operation and maintenance phase, mitigation is embedded into the design of the Proposed Scheme (e.g., the Outline LEMP). This approach is explained in [Appendix 13.1 LVIA Methodology](#). On this basis, no additional mitigation is currently proposed.

| Proposed Scheme Phase | Receptor                                | Environmental effect without further mitigation   | Additional mitigation  | Residual effect post additional mitigation  |
|-----------------------|---|---|------------------------|---|
| Construction          | LLCA 02 Friston sandlands               | Amendments to Kiln Lane Substation Scenario: <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Negligible adverse (not significant)  |
| Construction          | LLCA 02 Friston sandlands               | Full Build Out of Kiln Lane Substation Scenario: <b>Major adverse (significant)</b>   | N/A – see footnote one | Minor adverse (not significant)   |
| Construction          | LLCA 03 Friston                         | Amendments to Kiln Lane Substation Scenario: <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Negligible adverse (not significant)  |
| Construction          | LLCA 03 Friston                         | Full Build Out of Kiln Lane Substation Scenario: <b>Major adverse (significant)</b>   | N/A – see footnote one | Minor adverse (not significant)   |
| Construction          | LLCA 04 Knodishall claylands            | Both Kiln Lane Substation Scenarios as described in <b>Chapter 2 Description of the Proposed Scheme: Moderate adverse (significant)</b> | N/A – see footnote one | Amendments to Kiln Lane Substation Scenario: Negligible adverse (not significant)<br>Full Build of Kiln Lane Substation Scenario: Minor adverse (not significant) |
| Construction          | LLCA 05 Saxmundham east claylands       | <b>Major adverse (significant)</b>  | N/A – see footnote one | <b>Moderate adverse (significant)</b>   |
| Construction          | LLCA 06 River Fromus valley meadowlands | <b>Major adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)   |
| Construction          | LLCA 08 Saxmundham                      | <b>Moderate adverse (significant)</b>   | N/A – see footnote one | Minor adverse (not significant)   |
| Construction          | LLCA 09 Walberswick Sandlings           | <b>Moderate adverse (significant)</b>   | N/A – see footnote one | Minor adverse (not significant)   |

| Proposed Scheme Phase | Receptor  | Environmental effect without further mitigation  | Additional mitigation  | Residual effect post additional mitigation   |
|-----------------------|---|--|------------------------|--|
| Construction          | LLCA 10 Dunwich River open coastal fens                                   | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | No effect (Not significant)  |
| Construction          | LLCA 11 Walberswick sandlands plateau                                     | <b>Major adverse (significant)</b>   | N/A – see footnote one | Negligible adverse (not significant)   |
| Construction          | LLCA 14 River Blyth sandlands   | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Negligible adverse (not significant)   |
| Construction          | LLCA 15 Walberswick sandlands fringe                                      | <b>Major adverse (significant)</b>   | N/A – see footnote one | Negligible adverse (not significant)   |
| Construction          | LLCA 16 Walberswick common  | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | No effect (Not significant)  |
| Construction          | LLCA 17 Walberswick village   | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | No effect (Not significant)  |
| Construction          | LLCA 19 River Blyth Harbour dunes and saltmarsh                           | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | No effect (Not significant)  |
| Construction          | LLCA 20 Walberswick coast   | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | No effect (Not significant)  |
| Construction          | LLCA 21 Blythburgh sandlands  | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Negligible adverse (not significant)   |
| Construction          | Residents of isolated properties between Saxmundham and Leiston VP 9,VP10 | All options associated with the Proposed Underground Cable Corridor<br>Amendment to Substation Scenario: <b>Moderate adverse (significant)</b> | N/A – see footnote one | Minor adverse (not significant) VP 9<br>Negligible adverse (not significant VP 10) |

| Proposed Scheme Phase | Receptor  | Environmental effect without further mitigation  | Additional mitigation  | Residual effect post additional mitigation  |
|-----------------------|---|--|------------------------|---|
| Construction          | Residents of isolated properties between Saxmundham and Leiston<br>VP9, VP10, VP11  | All options associated with the Proposed Underground Cable Corridor<br>Proposed Full Build Out of Kiln Lane Substation Scenario:<br><b>Moderate to major adverse (significant)</b> | N/A – see footnote one | Minor adverse (not significant) VP 9, VP 11<br>Negligible adverse (not significant) VP 10                         |
| Construction          | Residents of isolated properties between Saxmundham and Leiston<br>VP21, VP20, VP27 | All options associated with the Proposed Underground Cable Corridor<br><b>Moderate to Major adverse (significant)</b>  | N/A – see footnote one | Minor adverse to <b>Moderate adverse (significant)</b> VP 21, VP 20<br>Negligible adverse (not significant) VP 27 |
| Construction          | Residents of Knodishall Green<br>VP22, VP24   | All options associated with the Proposed Underground Cable Corridor<br><b>Moderate adverse (significant)</b>   | N/A – see footnote one | Minor adverse to Negligible adverse (not significant)   |
| Construction          | Residents of isolated properties, particularly Wardspring Farm<br>VP18, VP19        | All options associated with the Proposed Underground Cable Corridor<br><b>Major adverse (significant)</b>  | N/A – see footnote one | <b>Moderate adverse (significant)</b>   |
| Construction          | Residents of Blyburgh<br>VP49, VP51   | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)   |
| Construction          | Residents of Annesons Corner<br>VP35  | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Negligible adverse (not significant)  |
| Construction          | Residents of isolated properties around Hawthorn Road and Wash Lane                 | Western Route option of the Proposed Underground HVDC Cable Corridor: <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Negligible adverse (not significant)  |

| Proposed Scheme Phase | Receptor  | Environmental effect without further mitigation                     | Additional mitigation  | Residual effect post additional mitigation     |
|-----------------------|---|---|------------------------|--|
|                       | VP34  |   |                        |  |
| Construction          | Residents of Walberswick VP57, VP63, VP64, VP65                         | <b>Moderate adverse to Major adverse (significant)</b>              | N/A – see footnote one | Minor adverse (not significant)                |
| Construction          | Residents of Lodge Road VP60, VP59                                      | <b>Moderate adverse (significant)</b>                               | N/A – see footnote one | Minor adverse (not significant)                |
| Construction          | Residents of properties between Middleton Moor and Middleton VP36       | <b>Moderate adverse (significant)</b>                               | N/A – see footnote one | Negligible adverse (not significant)           |
| Construction          | Users of vessels VP77   | <b>Major adverse (significant)</b>                                  | N/A – see footnote one | Minor adverse (not significant)                |
| Construction          | Residents of Saxmundham VP16  | <b>Major adverse (significant)</b>                                  | N/A – see footnote one | <b>Moderate adverse (significant)</b>          |
| Construction          | Users of the Sandlings Walk promoted public right of way VP57           | <b>Moderate adverse (significant)</b>                               | N/A – see footnote one | Minor adverse (not significant)                |
| Construction          | Users of the Suffolk Coast Path promoted public right of way VP66, VP67 | <b>Moderate adverse to Major adverse (significant)</b>              | N/A – see footnote one | Minor adverse (not significant)                |
| Construction          | Users of the PRoW network between                                       | All options associated with the Proposed Underground Cable Corridor | N/A – see footnote one | <b>Minor to Moderate adverse (significant)</b> |

| Proposed Scheme Phase | Receptor   | Environmental effect without further mitigation   | Additional mitigation  | Residual effect post additional mitigation   |
|-----------------------|--|---|------------------------|--|
|                       | Friston and Saxmundham VP21, VP16, VP20                                | <b>Moderate adverse to Major adverse (significant)</b>  |                        |  |
| Construction          | Users of the PRoW network between Friston and Saxmundham VP10, VP11    | All options associated with the Proposed Underground Cable Corridor<br><b>Moderate to major adverse (significant)</b> | N/A – see footnote one | Minor adverse (not significant) VP 11<br>Amendments to Kiln Lane Substation Scenario: Negligible adverse (not significant) VP 10<br>Full Build Out of Kiln Lane Substation Scenario: Minor adverse (not significant) |
| Construction          | Users of the PRoW network around The Layers VP14, VP15                 | <b>Moderate adverse to Major adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant) VP 14<br>Negligible adverse (not significant VP 15   |
| Construction          | Users of the PRoW network on the northern edge of the Alde Valley VP18 | All options associated with the Proposed Underground Cable Corridor<br><b>Major adverse (significant)</b>             | N/A – see footnote one | <b>Moderate adverse (significant)</b>  |
| Construction          | Users of the PRoW network around Blythburgh VP49, VP51                 | <b>Moderate adverse (significant)</b>   | N/A – see footnote one | Minor adverse (not significant)  |
| Construction          | Users of the PRoW network around Annesons Corner VP34                  | Western Route option of the Proposed Underground HVDC Cable Corridor: <b>Moderate adverse (significant)</b>           | N/A – see footnote one | Negligible adverse (not significant)   |

| Proposed Scheme Phase | Receptor  | Environmental effect without further mitigation        | Additional mitigation  | Residual effect post additional mitigation            |
|-----------------------|---|--|------------------------|---|
| Construction          | Users of the PRoW network between East Green and Theberton VP31                       | <b>Moderate adverse (significant)</b>                  | N/A – see footnote one | Negligible adverse (not significant)                  |
| Construction          | Users of the PRoW network between Saxmundham and East Green VP26                      | <b>Moderate adverse (significant)</b>                  | N/A – see footnote one | Negligible adverse (not significant)                  |
| Construction          | Users of the PRoW network between Yoxford and Middleton VP38                          | <b>Moderate adverse (significant)</b>                  | N/A – see footnote one | Negligible adverse (not significant)                  |
| Construction          | Users of the PRoW network around Walberswick VP59, VP60, VP63, VP64, VP65, VP70, VP71 | <b>Moderate adverse to Major adverse (significant)</b> | N/A – see footnote one | Negligible adverse to minor adverse (not significant) |
| Construction          | Users of the PRoW network between Walberswick and Dunwich VP69                        | <b>Moderate adverse (significant)</b>                  | N/A – see footnote one | Minor adverse (not significant)                       |
| Construction          | Users of the PRoW network on the northern edge of the Westwood Marshes VP62           | <b>Moderate adverse (significant)</b>                  | N/A – see footnote one | Minor adverse (not significant)                       |

| Proposed Scheme Phase | Receptor  | Environmental effect without further mitigation  | Additional mitigation  | Residual effect post additional mitigation   |
|-----------------------|---|--|------------------------|--|
| Construction          | Users of the PRoW network near Dunwich Forest VP53        | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Negligible adverse (not significant)   |
| Construction          | Users of the public right of way near Warspring farm VP19 | All options associated with the Proposed Underground Cable Corridor<br><b>Major adverse (significant)</b>    | N/A – see footnote one | <b>Moderate adverse (significant)</b>  |
| Construction          | People travelling along Grove Road and School Road VP9    | Amendment to Kiln Lane Substation Scenario: <b>Moderate adverse (significant)</b>                            | N/A – see footnote one | Negligible adverse (not significant)   |
| Construction          | People travelling along Grove Road and School Road VP9    | Proposed Full Build Out of Kiln Lane Substation Scenario: <b>Moderate adverse (significant)</b>              | N/A – see footnote one | Minor adverse (not significant)  |
| Construction          | People travelling along Moat Road (Quiet Lane) VP31       | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Negligible adverse (not significant)   |
| Construction          | People travelling along the B119 VP19, VP17               | All options associated with the Proposed Underground Cable Corridor<br><b>Moderate adverse (significant)</b> | N/A – see footnote one | <b>Moderate adverse (significant) VP19</b><br>Minor adverse (not significant) VP17 |
| Construction          | People travelling along the B1121 VP14                    | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)  |
| Construction          | People travelling along the B1387 and the B1125           | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)  |

| Proposed Scheme Phase              | Receptor   | Environmental effect without further mitigation  | Additional mitigation  | Residual effect post additional mitigation |
|------------------------------------|--|--|------------------------|--|
|                                    | VP52   |  |                        |  |
| Construction                       | Visitors to beach huts and campsites VP70 and VP71   | <b>Moderate adverse to Major adverse (significant)</b>                                 | N/A – see footnote one | Minor adverse (not significant)            |
| Construction                       | Visitors to Walberswick Beach VP67, VP69, VP70, VP73 | <b>Moderate to Major adverse (significant)</b>   | N/A – see footnote one | Minor adverse (not significant)            |
| Construction                       | Visitors to Walberswick Marshes VP66                 | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)            |
| Operation and maintenance (Year 1) | K2 Dunwich and Westleton Sandlands                   | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)            |
| Operation and maintenance (Year 1) | L1 Heveningham and Knodishall Estate Claylands       | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)            |
| Operation and maintenance (Year 1) | LLCA 02 Friston sandlands                            | Full Build Out of Kiln Lane Substation Scenario: <b>Moderate adverse (significant)</b> | N/A – see footnote one | Minor adverse (not significant)            |
| Operation and maintenance (Year 1) | LLCA 03 Friston                                      | Full Build Out of Kiln Lane Substation Scenario: <b>Moderate adverse (significant)</b> | N/A – see footnote one | Minor adverse (not significant)            |
| Operation and maintenance (Year 1) | LLCA 05 Saxmundham east claylands                    | <b>Major adverse (significant)</b>   | N/A – see footnote one | <b>Moderate adverse (significant)</b>      |
| Operation and maintenance (Year 1) | LLCA 06 River Fromus valley meadowlands              | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)            |

| Proposed Scheme Phase              | Receptor   | Environmental effect without further mitigation  | Additional mitigation  | Residual effect post additional mitigation   |
|------------------------------------|--|--|------------------------|--|
| Operation and maintenance (Year 1) | LLCA 08 Saxmundham   | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)  |
| Operation and maintenance (Year 1) | LLCA 11 Walberswick sandlands plateau                                      | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Negligible adverse (not significant)   |
| Operation and maintenance (Year 1) | LLCA 15 Walberswick sandlands fringe                                       | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Negligible adverse (not significant)   |
| Operation and maintenance (Year 1) | Residents of isolated properties between Saxmundham and Leiston VP9, VP10  | All options associated with the Proposed Underground Cable Corridor<br><b>Moderate adverse (significant)</b> | N/A – see footnote one | Minor adverse (not significant) VP 9<br>Negligible adverse (not significant) VP 10 |
| Operation and maintenance (Year 1) | Residents of isolated properties between Saxmundham and Leiston VP20, VP21 | All options associated with the Proposed Underground Cable Corridor<br><b>Moderate adverse (significant)</b> | N/A – see footnote one | <b>Minor adverse to Moderate adverse (significant) VP 21, VP 20</b>                |
| Operation and maintenance (Year 1) | Residents of Saxmundham VP16   | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | <b>Moderate adverse (significant)</b>  |
| Operation and maintenance (Year 1) | Residents of isolated properties, particularly Wardspring Farm VP18, VP19  | All options associated with the Proposed Underground Cable Corridor<br><b>Moderate adverse (significant)</b> | N/A – see footnote one | <b>Moderate adverse (significant)</b>  |
| Operation and maintenance (Year 1) | Residents of Walberswick VP63, VP64, VP65                                  | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)  |

| Proposed Scheme Phase              | Receptor  | Environmental effect without further mitigation  | Additional mitigation  | Residual effect post additional mitigation     |
|------------------------------------|---|--|------------------------|--|
| Operation and maintenance (Year 1) | Users of the PRoW network between Friston and Saxmundham VP10             | All options associated with the Proposed Underground Cable Corridor<br><b>Moderate adverse (significant)</b> | N/A – see footnote one | Negligible adverse (not significant)           |
| Operation and maintenance (Year 1) | Users of the PRoW network around The Layers VP14                          | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)                |
| Operation and maintenance (Year 1) | Users of the PRoW network between Friston and Saxmundham VP16, VP20, VP21 | All options associated with the Proposed Underground Cable Corridor<br><b>Moderate adverse (significant)</b> | N/A – see footnote one | <b>Minor to Moderate adverse (significant)</b> |
| Operation and maintenance (Year 1) | Users of the public right of way near Wardspring farm VP19                | All options associated with the Proposed Underground Cable Corridor<br><b>Moderate adverse (significant)</b> | N/A – see footnote one | <b>Moderate adverse (significant)</b>          |
| Operation and maintenance (Year 1) | Users of the PRoW network around Walberswick VP63, VP64, VP65, VP70       | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)                |
| Operation and maintenance (Year 1) | People travelling along Grove Road and School Road VP9                    | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Negligible adverse (not significant)           |
| Operation and maintenance (Year 1) | People travelling along the B1121 VP14                                    | <b>Moderate adverse (significant)</b>  | N/A – see footnote one | Minor adverse (not significant)                |

| Proposed Scheme Phase               | Receptor   | Environmental effect without further mitigation   | Additional mitigation  | Residual effect post additional mitigation   |
|-------------------------------------|--|---|------------------------|--|
| Operation and maintenance (Year 1)  | People travelling along the B1119 VP19, VP17                               | All options associated with the Proposed Underground Cable Corridor<br><b>Moderate adverse (significant)</b>                  | N/A – see footnote one | <b>Moderate adverse (significant) VP19</b><br>Minor adverse (not significant) VP17 |
| Operation and maintenance (Year 15) | Residents of isolated properties between Saxmundham and Leiston VP21, VP20 | All options associated with the Proposed Underground Cable Corridor<br><b>Minor adverse to Moderate adverse (significant)</b> | N/A – see footnote one | <b>Moderate adverse (significant)</b>  |
| Operation and maintenance (Year 15) | Residents of isolated properties, particularly Wardspring Farm VP18, VP19  | All options associated with the Proposed Underground Cable Corridor<br><b>Moderate adverse (significant)</b>                  | N/A – see footnote one | <b>Moderate adverse (significant)</b>  |
| Operation and maintenance (Year 15) | Users of the PRoW network between Friston and Saxmundham VP16              | <b>Moderate adverse (significant)</b>   | N/A – see footnote one | <b>Moderate adverse (significant)</b>  |
| Operation and maintenance (Year 15) | Users of the PRoW network between Friston and Saxmundham VP20, VP21        | All options associated with the Proposed Underground Cable Corridor<br><b>Minor to Moderate adverse (significant)</b>         | N/A – see footnote one | <b>Moderate adverse (significant)</b>  |
| Operation and maintenance (Year 15) | Users of the PRoW network on the northern edge of the Alde Valley VP18     | All options associated with the Proposed Underground Cable Corridor<br><b>Moderate adverse (significant)</b>                  | N/A – see footnote one | <b>Moderate adverse (significant)</b>  |

| Proposed Scheme Phase                                     | Receptor                                | Environmental effect without further mitigation  | Additional mitigation  | Residual effect post additional mitigation |
|---|---|--|--|--|
| Operation and maintenance (Year 15)                       | People travelling along the B1119 VP19  | All options associated with the Proposed Underground Cable Corridor<br><b>Moderate adverse (significant)</b>   | N/A – see footnote one   | <b>Moderate adverse (significant)</b>      |
| Decommissioning   |   | Landscape and visual effects are considered to be no greater than those identified during the construction phase (i.e., the activities relating to decommissioning would be similar to construction but carried out in the context of enhanced landscape mitigation, and therefore they have been assessed as construction effects as a reasonable 'worst-case' scenario). |  |  |
| <b>Chapter 14 Material assets and waste</b>               |   |  |  |  |
| No significant effects identified                         |   |  |  |  |
| <b>Chapter 15 Noise and vibration</b>                     |   |  |  |  |
| Construction  | Noise and vibration sensitive receptors | Construction noise night-time around Landfall site – <b>significant adverse</b>  | Additional mitigation measures are being developed and will be set out within the subsequent Environmental Statement (ES). | <b>Significant</b>                         |
| Operation and maintenance                                 |   | No significant effects identified.   |  |  |
| Decommissioning   |   | No significant effects identified.   |  |  |
| <b>Chapter 16 Socio-economics, recreation and tourism</b> |   |  |  |  |
| Construction  | Other local businesses                  | Receptors identified are of medium or high sensitivity and, with embedded mitigation, the magnitude of impacts identified are negligible to minor adverse,   | Further discussions will take place as the design and ES progresses and  | <b>Moderate adverse (significant).</b>     |

| Proposed Scheme Phase | Receptor | Environmental effect without further mitigation   | Additional mitigation  | Residual effect post additional mitigation |
|-----------------------|----------|---|--|--|
|                       |          | <p>primarily given the increased construction activities in the surrounding area. Where identified, further discussions will continue as the ES progresses and mitigation options considered further.</p> <p>One receptor, however, has a high sensitivity and is anticipated to experience a small magnitude of impact. In this instance, because the receptor's land holding is partially within the Proposed Onshore Draft Order Limits, where the proposed permanent access road is located and the potential impact this could have on event viability during the peak construction impact, it is considered that there would be a <b>moderate adverse effect, which is significant.</b></p> <p>There are no other significant effects identified.</p> | mitigation options are considered further in an effort to reduce the overall effect. |  |
| Operation             |          | No significant effects identified.  |  |  |
| Decommissioning       |          | The impacts of the decommissioning phase would be the same as, or not greater than, the construction phase  |  |  |

## Chapter 17 Traffic and Transport

Further assessment is to be undertaken and reported in the ES when the design of the Proposed Scheme has been fixed following Statutory Consultation and when required data to support the quantitative assessment has been fully captured.

| Proposed Scheme Phase                                       | Receptor                 | Environmental effect without further mitigation   | Additional mitigation   | Residual effect post additional mitigation |
|---|--------------------------|---|---|--|
| <b>Proposed Offshore Scheme</b>                             |                          |   |   |  |
| <b>Chapter 18 Marine Physical Environment</b>               |                          |   |   |  |
| No significant effects identified.                          |                          |   |   |  |
| <b>Chapter 19 Intertidal and Subtidal Benthic Ecology</b>   |                          |   |   |  |
| No significant effects identified.                          |                          |   |   |  |
| <b>Chapter 20 Fish and Shellfish</b>                        |                          |   |   |  |
| No significant effects identified.                          |                          |   |   |  |
| <b>Chapter 21 Intertidal and Offshore Ornithology</b>       |                          |   |   |  |
| Construction, Operation and Maintenance and Decommissioning | Outer Thames Estuary SPA | <b>Moderate and Significant</b><br>(specifically related to if HDD enabling and cable pull-in works are conducted between 01 November and 31 March) | Measures outlined in OC11 and OC40 to restrict vessel movements to Draft Order Limits or designated transit routes. Further measures to be discussed with NE/JNCC and presented in the subsequent ES. | <b>Moderate adverse (significant).</b>     |
| <b>Chapter 22 Marine Mammals</b>                            |                          |   |   |  |
| No significant effects identified                           |                          |   |   |  |
| <b>Chapter 23 Shipping and Navigation</b>                   |                          |   |   |  |
| No significant effects identified                           |                          |   |   |  |
| <b>Chapter 24 Commercial Fisheries</b>                      |                          |   |   |  |
| No significant effects identified                           |                          |   |   |  |

| Proposed Scheme Phase                | Receptor | Environmental effect without further mitigation  | Additional mitigation | Residual effect post additional mitigation |
|--------------------------------------|----------|--|-----------------------|--|
| <b>Chapter 25 Other Marine Users</b> |          |  |                       |  |
|                                      |          | No significant effects identified  |                       |  |
| <b>Chapter 26 Marine Archaeology</b> |          |  |                       |  |
|                                      |          | No significant effects identified.   |                       |  |
| <b>Project wide</b>                  |          |  |                       |  |
| <b>Chapter 27 Climate Change</b>     |          |  |                       |  |
|                                      |          | No significant effects identified at this stage (further assessment is to be undertaken and reported in the ES). |                       |  |
| <b>Chapter 28 Cumulative Effects</b> |          |  |                       |  |
|                                      |          | Further assessment is to be undertaken and reported in the ES.   |                       |  |

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