

Offshore Wind Farm

Cumulative Effects Assessment Summary (Tracked)

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Glossary of Acronyms

| ALARP | As Low as Reasonably Practicable |
|-------|--|
| ATS | Air Traffic Service |
| CEA | Cumulative Effects Assessment |
| EIA | Environmental Impact Assessment |
| EMF | Electromagnetic Fields |
| ES | Environmental Statement |
| EU | European Union |
| GHG | Greenhouse Gas |
| HDD | Horizontal Directional Drilling |
| HLC | Historic Landscape Character |
| IMO | International Maritime Organisation |
| IOF | Important Ornithological Features |
| KKE | Kentish Knock East |
| LCA | Landscape Character Areas |
| LNR | Local Nature Reserve |
| LOCAI | Local Onshore Cable Area of Influence |
| LVIA | Landscape and Visual Impact Assessment |
| MCA | Maritime and Coastguard Agency |
| MCZ | Marine Conservation Zone |
| MoD | Ministry of Defence |
| nm | Nautical Mile |
| NPS | National Policy Statements |
| NRMM | Non-Road Mobile Machinery |
| O&M | Operation & Maintenance |
| OLEMS | Outline Landscape and Ecological Management Strategy |
| OWF | Offshore Wind Farm |
| PEIR | Preliminary Environmental Impact Report |
| PRoW | Public Rights of Way |
| SAC | Special Area of Conservation |
| SEA | South & East Anglia |
| SEZ | Structure Exclusion Zone |
| SLVIA | Seascape, Landscape and Visual Impact Assessment |
| SSC | suspended sediment concentrations |
| SSSI | Site of Special Scientific Interest |
| TA | Transport Assessment |
| UK | United Kingdom |
| VEOWL | Five Estuaries Offshore Wind Farm Limited |
| WTG | Wind Turbine Generator |

1 Cumulative Effects Assessment Summary

1.1 Introduction

1. North Falls Offshore Wind Farm (hereafter 'the Project' or 'North Falls') is subject to an Environmental Impact Assessment (EIA) to ensure the assessment of environmental effects of the Project. This document provides a summary of the Cumulative Effects Assessment (CEA) for the offshore, onshore and project-wide topics assessed within the North Falls Environmental Statement (ES), which records the findings of the EIA. Each technical chapter within the ES considers the likely significant effects associated with the construction, operation and maintenance, and decommissioning phases of North Falls for the Project alone and provides an assessment of the likely significant cumulative effects with other plans and projects.

1.1.1 Updates in this version

2. This version of the Cumulative Effects Assessment Summary (Rev 1) has been updated to reflect the most recent status of other projects and clarify the way the distance of North Falls to other offshore wind farms is presented (when relevant). These updates have not changed the conclusions of the assessments.

1.1.2 Purpose and scope

- 2.3. The purpose of this document is to provide an overview of all the potential offshore and onshore cumulative effects of the Project.
- 3.4. This document draws information from, and should be read in conjunction with, the following ES Chapters:
 - Chapter 8 Marine Geology Oceanography and Physical Processes [APP-022];
 - Chapter 9 Marine Water and Sediment Quality [APP-023];
 - Chapter 10 Benthic and Intertidal Ecology [APP-024];
 - Chapter 11 Fish and Shellfish Ecology [APP-025];
 - Chapter 12 Marine Mammals [APP-026];
 - Chapter 13 Offshore Ornithology [APP-027];
 - Chapter 14 Commercial Fisheries [APP-028];
 - Chapter 15 Shipping and Navigation [APP-029];
 - Chapter 16 Offshore and Intertidal Archaeology and Cultural Heritage [APP-030];
 - Chapter 17 Aviation and Radar [APP-031];
 - Chapter 18 Infrastructure and Other Users [APP-032];
 - Chapter 19 Ground Conditions and Contamination [APP-033];

- Chapter 20 Air Quality [APP-034];
- Chapter 21 Water Resource and Flood Risk [APP-035];
- Chapter 22 Land Use and agriculture [APP-036];
- Chapter 23 Onshore Ecology [APP-037];
- Chapter 24 Onshore Ornithology [APP-038];
- Chapter 25 Onshore Archaeology and Cultural Heritage [APP-039];
- Chapter 26 Noise and Vibration [APP-040];
- Chapter 27 Traffic and Transport [APP-041];
- Chapter 28 Human Health [APP-042];
- Chapter 29 Seascape, Landscape and Visual Impact Assessment [APP-043];
- Chapter 30 Landscape and Visual Impact Assessment [APP-044];
- Chapter 31 Socio-economics [AS-010];
- Chapter 32 Tourism and Recreation [APP-046]; and,
- Chapter 33 Climate Change [APP-047].
- 4.5. Cumulative effects in relation to major accidents and disasters are considered, where relevant, within the technical ES Chapters.

1.2 Legislation, Policy and Guidance

5.6. There are numerous pieces of legislation and guidance that are applicable to a CEA. The following sections provide an overview of the international and UK legislation and guidance, which are relevant to this document.

1.2.1 Legislation

- 6.7. The EIA process originates from the European Union (EU) and is codified by Directive 2011/92/EU (as further amended by Directive 2014/52/EU). The provisions of the EU Directive are currently incorporated into English law for Nationally Significant Infrastructure Projects by the –Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (hereafter referred to as the 'EIA Regulations'). Such provisions have been retained in English law following the UK's exit from the EU in January 2020.
- 7.8. ES Chapter 6 EIA Methodology [APP-020] outlines the requirement for EIA.
- 8.9. Schedule 4, paragraph 5 of the EIA Regulations (abridged below) states the need for:
 - "A description of the likely significant effects of the development on the environment resulting from, inter alia:
 - (e) the cumulation of effects with other existing and/or approved projects, taking into account any existing environmental problems relating to areas of

particular environmental importance likely to be affected or the use of natural resources

The description of the likely significant effects on the factors specified in regulation 5(2) should cover the direct effects and any indirect, secondary, cumulative, transboundary, short-term, medium-term and long-term, permanent and temporary, positive and negative effects of the development."

9.10. In line with this requirement, a description of likely significant cumulative effects is provided in each technical ES Chapter and has been summarised in this document.

1.2.2 Policy

- 40.11. The Project has been developed to ensure it accords with each relevant policy as detailed in the Planning Statement submitted with the Development Consent Order (DCO) application.
- 41.12. Policy and legislation specific to each EIA topic are also outlined in the relevant technical ES Chapter (Chapters 8 to 34). The CEA within each ES Chapter has been undertaken with specific reference to the relevant National Policy Statements (NPS). Please refer to the National Policy Statement Accordance Table [REP1-053], submitted by the Applicant, which outlines the relevant policies contained within the NPS and identifies how the Project, and the application for development consent for the Project, have complied with these policies.

1.2.3 Guidance

- 42.13. Guidance that is applicable to a specific assessment can be found in the relevant technical ES Chapter.
- 43.14. Of relevance to CEA in general, and which has been used to guide the approach taken, is RenewableUK (2013) Cumulative impact assessment guidelines, guiding principles for cumulative impacts assessments in offshore wind farms.
- 14.15. The PINS Nationally Significant Infrastructure Projects Advice page on Cumulative Effects Assessment (2024) summarises the process for undertaking cumulative effects assessments in the context of Nationally Significant Infrastructure Projects (NSIPs) under the Planning Act 2008, which supersedes Advice Note Seventeen.

1.3 Cumulative Effects Assessment Methodology

45.16. A cumulative effect is an effect that results from changes caused by other past, present or reasonably foreseeable actions when considered together with North Falls. The CEA therefore considers other reasonably foreseeable development-related activities occurring within a similar timeframe to the construction and operation of North Falls, for which there is reasonable information upon which to base a meaningful assessment.

46.17. PINS- Advice on Cumulative Effects Assessment (Planning Inspectorate, 2024) advise that the following plans and projects should be considered in the CEA:

Tier 1

- Projects that are under construction;
- Permitted applications under the Planning Act or other regimes, not yet implemented;
- Submitted applications under the Planning Act or other regimes, not yet determined; and,
- All refusals subject to appeal procedures not yet determined.
- Tier 2
- Projects on the Planning Inspectorate's Programme of Projects.
- Tier 3
- Projects on the Planning Inspectorate's programme of projects where a scoping report has not been submitted;
- Other existing and, or approved development identified in the relevant Development Plan and emerging Development Plans, with appropriate weight given as they near adoption, recognising that there will be limited information available on the relevant proposals; and,
- Other existing and, or approved development identified in other plans and programmes, as appropriate, which set the framework for future development consents or approvals, where such development is reasonably likely to come forward.
- 47.18. Where it is helpful to do so 'tiers' of these other projects' statuses have been defined as well as the availability of information to be used within the CEA. This approach is based on the three-tier system proposed in PINS Advice on Cumulative Effects Assessment (2024) which indicates the certainty which can be assigned to each development.
- 18.19. As advised by Natural England in the Benthic and Intertidal Ecology, Marine Mammals and Offshore Ornithology chapters, a more refined tiering system based on the guidance issued by Natural England and Defra (2022) is employed and involves seven tiers as presented below:
 - Tier 1
 - Built and operational projects where they have not been included within the
 environmental characterisation survey, i.e., they were not operational when
 baseline surveys were undertaken, and/or any residual effect may not have
 yet fed through to and been captured in estimates of "baseline" conditions,
 such as "background" distribution or mortality rate for birds.
 - Tier 2
 - Projects under construction plus Tier 1 projects.

Tier 3

• Projects that have been consented (but construction has not yet commenced) plus Tiers 1 and 2.

Tier 4

 Projects that have an application submitted to the appropriate regulatory body that have not yet been determined, plus Tiers 1-3.

Tier 5

 Projects that have produced a Preliminary Environmental Information Report (PEIR) and have characterisation data within the public domain, plus Tiers 1-4.

• Tier 6

• Projects that the regulatory body are expecting to be submitted for determination (e.g., projects listed under the Planning Inspectorate programme of projects), plus Tiers 1-5.

• Tier 7

- Projects that have been identified in relevant strategic plans or programmes plus Tiers 1-6.
- 19.20. The CEA is a two-part process in which an initial list of projects with the potential to interact with North Falls are identified, based on the potential mechanism of interaction. The tiered approach is then adopted to enable further assessment based on the availability of information for each project.
- 20.21. In line with the RenewableUK CEA Guidelines for offshore wind farms (RenewableUK, 2013), the approach to CEA attempts to incorporate an appropriate level of pragmatism. This is demonstrated in the confidence levels applied to the understanding of other projects (either their design or their likely significant effects), particularly those that are known but currently lack detailed design documentation, such as those projects at the scoping stage only. Projects can be considered in the CEA only where it is considered that there is sufficient detail with which to undertake a meaningful assessment. Where there is a lack of specific information in the public domain, such as how and when (or if) projects will be built, it is not always possible to undertake a meaningful CEA.
- 21.22. Where projects which were sufficiently implemented at the time of undertaking the characterisation of the existing environment as their effects had been fully determined, these are considered as part of the baseline for the EIA in line with PINS Advice on Cumulative Effects Assessment (Planning Inspectorate, 2024).
- 22.23. Offshore cumulative effects may arise from interactions with the following activities and industries (but are not limited to):
 - Other offshore wind farms;
 - Aggregate extraction and dredging;

- Licensed disposal sites;
- Sub-sea cables and pipelines;
- Potential port/harbour development; and,
- · Oil and gas activities.
- 23.24. Onshore plans or projects to be taken into consideration include (but are not limited to):
 - Other energy generation or transmission infrastructure;
 - Building/housing developments;
 - Installation or upgrade of roads;
 - Installation or upgrade of cables and pipelines;
 - Coastal protection works; and,
 - National grid works.
- 24-25. Due to ongoing co-ordination and collaboration with the Five Estuaries Offshore Wind Farm Limited (VEOWL), the projects have shared data and information informing their environmental assessments, as well as collaboration on design of the Projects' onshore infrastructure. This has included the development of build-out scenarios for the build out of the Projects' onshore infrastructure. The CEA section of each technical chapter therefore include a detailed consideration of the Five Estuaries project considering these different build-out scenarios.
- 25.26. Using the design information provided by VEOWL, and checked/updated against the submission of the Five Estuaries ES, a realistic worst case cumulative scenario has been developed for each technical ES Chapter.
- 26.27. This realistic worst case cumulative scenario considers three potential cumulative scenarios, as outlined in ES Chapter 5 Project Description [APP-019]:
 - Scenario 1: North Falls 'Option 2' build out is progressed, and VEOWL undertakes landfall, onshore substation construction and cable pull which overlaps with North Falls equivalent works. In this scenario, onshore cable route associated works, including TCCs, accesses and haul road, all remain in place and are used by the second project during its construction.
 - Scenario 2: North Falls 'Option 1 build out is progressed, and VEOWL undertakes landfall, onshore substation and onshore cable route construction and cable pull, all of which does not overlap with North Falls' equivalent works. There would be a gap of between 1 and 3 years between each Projects' construction. In this scenario, onshore cable route associated works, including TCCs, accesses and haul road, all remain in place and are used by the second project during its construction.
 - Scenario 3: North Falls 'Option 1' build out is progressed, and VEOWL undertakes a separate landfall, onshore substation and onshore cable route construction and cable pull with a multi-year (i.e. >3 year) gap

between the two construction activities. In this scenario, there is no reuse in onshore temporary works between the two projects, and all onshore cable route associated works are rebuilt and reinstated in full by the second project.

- 27.28. The outcomes of this detailed CEA with Five Estuaries has then been subject to a further CEA with other plans and projects identified through the approach outlined above, to reach overall conclusions about the potential cumulative effects arising from the development of North Falls and other plans and projects. The specific approach taken for each technical topic is described in the CEA section of each chapter.
- 28.29. The list of offshore and, onshore and project wide projects included in the CEA within each ES Chapter, can be found in Table 1.1 Table 1.1, Table 1.2 Table 1.2 and Table 1.3. Table 1.3, respectively.

Table 1.1 Projects included in the CEA for offshore technical assessments

| Project | Status | Construction Period | Closest Distance from the <u>Arrayarray</u> area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale | | | | |
|--------------------------------------|--|------------------------|---|--|-----------------------|--------------------|---|--|--|--|--|
| Chapter 8 Marine | Chapter 8 Marine Geology Oceanography and Physical Processes | | | | | | | | | | |
| NeuConnect Interconnector | Pre-construction | 2023-2028 | 2.5 | 0 | High | Yes | The NeuConnect Interconnector bisects the North Falls offshore cable corridor and there is potential for temporal overlap of cable installation activities. | | | | |
| Nautilus Interconnector | Pre-application | 2025-2028 | Cable route currently unknown | | Low | Yes | The offshore study area for Nautilus intersects with the North Falls offshore project area. Therefore, there is potential for cumulative effects, subject to the final location and programme for the interconnector. | | | | |
| South & East Anglia (SEA) Link | Undergoing DCO Examination Pre- application | 2026-2030 | 5.4 | 0 | High | Yes | The emerging preferred and alternative routes for Sea Link intersect with the North Falls offshore cable corridor. Therefore, there is potential for cumulative effects. | | | | |

| Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|--|---|---|---|---|---|---|
| Pre-planning | 2027-2030 | Cable route currently | v unknown | Low | Yes | Interconnector between UK and Germany with potential to be in proximity to the North Falls offshore project area. Therefore, there is potential for cumulative effects, subject to the final location and programme for the interconnector. |
| Operational since 2012 | N/A | To cable corridor: | To array: 3.9 To cable corridor: 5.4 | Medium | Yes | Potential cumulative effects on the wave and tidal regimes, and from ongoing maintenance activities. |
| Operational since 2018 | N/A | To Array: 0 To cable corridor: 5.4 | To Array: 6.4 To cable corridor: 11.4 | Medium | Yes | Potential cumulative effects on the wave and tidal regimes, and from ongoing maintenance activities. |
| UndergoingWaiting for DCO Examination decision | 2028-2030 | To cable corridor: 0.6 | To array: 12.9 To cable corridor: 0 | Medium | Yes | Potential for some interaction between the dredging plumes from the cable/foundation installation from Five Estuaries with North Falls. During operation, there is potential for cumulative effects on the wave and tidal |
| | Pre-planning Operational since 2012 Operational since 2018 UndergoingWaiting for | Pre-planning 2027-2030 Operational since 2012 N/A Operational since 2018 N/A UndergoingWaiting for 2028-2030 | Status Construction Period Distance from the Arrayarray area (km) Pre-planning Operational since 2012 N/A To array: 0 To cable corridor: 0 Operational since 2018 N/A To Array: 0 To cable corridor: 5.4 UndergoingWaiting for DCO Examination decision To cable corridor: To cable corridor: 5.4 To cable corridor: 5.4 | Status Construction Period Pre-planning Distance from the Arrayarray area (km) Cable route currently unknown Cable corridor: (km) Cable corridor: 0 To array: 3.9 To cable corridor: 5.4 Operational since 2018 N/A To Array: 0 To cable corridor: 5.4 To cable corridor: 11.4 UndergoingWaiting for DCO Examination decision To cable corridor: To cable corridor: 11.4 To array: 0 To array: 0 To array: 12.9 | Status Construction Distance from the Arrayarray area (km) Confidence in Data | Status Construction Period Distance from the Offshore Cable Corridor (km) Confidence in Data Included in CEA |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|---|---|------------------------|--|--|-----------------------|--------------------|--|
| | | | | | | | ongoing maintenance activities. |
| Thames D aggregates production agreement area 524 | Production agreement secured 202 | 2022-2036 | 0 | 10.3 | Low | Yes | There is potential for some interaction between the dredging plumes from the aggregate exploration and option areas and plumes from cable/foundation installation / decommissioning and operation and maintenance activities. |
| | e Water and Sediment Quality | | | | | | |
| NeuConnect Interconnector | Construction | 2023-2028 | 2.5 | 0 | High | Yes | The NeuConnect Interconnector bisects the North Falls offshore cable corridor and there is potential for temporal overlap of cable installation activities. |
| South & East Anglia (SEA) Link | Pre-applicationUndergoing DCO Examination | 2026-2030 | 5.4 | 0 | High | Yes | The emerging preferred and alternative routes for Sea Link intersect with the North Falls offshore cable corridor. Therefore, there is potential for cumulative effects, subject to the final location and programme for the interconnector. |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|---|---|------------------------|--|--|-----------------------|--------------------|---|
| Five Estuaries offshore wind farm | UndergoingWaiting for DCO Examinationdecision | 2028-2030 | To array: 0 To cable corridor: 0.6 | To array: 12.9 To cable corridor: 0 | High | Yes | Potential for some interaction between the dredging plumes from the cable/foundation installation from Five Estuaries with North Falls. Following construction, cumulative effects on water quality are unlikely due to the highly localised and intermittent nature, and subsequent suspended sediment plumes, of any operational maintenance activities. |
| Thames D aggregates production agreement area 524 | Production agreement secured 2022 | 2022-2036 | 0 | 10.3 | Medium | Yes | There is potential for some interaction between the dredging plumes from the aggregate exploration and option areas and plumes from cable/foundation installation. Following construction, cumulative effects on water quality are unlikely due to the highly localised and intermittent nature, and subsequent suspended sediment plumes, of any operational maintenance |

| Project | Status | Construction Period | Closest Distance from the Array array area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|---|--|------------------------|--|--|-----------------------|--------------------|--|
| | | | | | | | and decommissioning activities. |
| Chapter 10 Bent | hic and Intertidal Ecology | | | | | | |
| NeuConnect Interconnector | Construction | 2023-2028 | 2.5 | 0 | High | Yes | The NeuConnect Interconnector bisects the North Falls offshore cable corridor and there is potential for temporal overlap of cable installation activities. |
| South & East Anglia (SEA) Link | Pre-application Undergoing DCO Examination | 2026-2030 | 5.4 | 0 | Medium | Yes | The emerging preferred and alternative routes for Sea Link intersect with the North Falls offshore cable corridor. Therefore, there is potential for cumulative effects, subject to the final location and programme for the interconnector. |
| Greater Gabbard offshore wind farm | Operational since 2012 | N/A | To Array: 0 To cable corridor: 0 | To array: 3.9 To cable corridor: 5.4 | Medium | Yes | Both GGOW and GWF are operational therefore there is potential cumulative effect on |
| Galloper offshore wind farm | Operational since 2018 | N/A | To Array: 0 To cable corridor: 5.4 | To Array: 6.4 To cable corridor: 11.4 | Medium | Yes | benthic ecology from their ongoing maintenance activities with construction and maintenance of the Project. |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale | |
|---|---|------------------------|--|--|-----------------------|--------------------|--|--|
| Five Estuaries offshore wind farm | UndergoingWaiting for DCO Examinationdecision | 2028-2030 | To array: 0 To cable corridor: 0.6 | To array: 12.9 To cable corridor: 0 | High | Yes | Potential for cumulative effect due to the proximity of the projects. | |
| Thames D aggregates production agreement area 524 | Production agreement secured 2022 | 2022-2036 | 0 | 10.3 | Low | Yes | There is potential for some interaction between dredging and aggregate exploration on benthic ecology. Removal of sediment and sediment plumes have the potential to have a cumulative effect. | |
| Chapter 11 Fish a | and Shellfish Ecology | | | | | | | |
| Offshore wind fa | | | | | | | | |
| Greater Gabbard | Operational since 2012 | N/A | To Array: 0 | To array: 3.9 | High | Yes | Both GGOW and GWF are operational therefore | |
| offshore wind farm | | | To cable corridor: | To cable corridor: 5.4 | | | there is potential cumulative effect on fish and shellfish receptors | |
| Galloper Offshore Wind | Operational since 2018 | N/A | To Array: 0 | To Array: 6.4 | High | Yes | from ongoing maintenance activities. | |
| Farm (OWF) | | | To cable corridor: 5.4 | To cable corridor: 11.4 | | | | |
| Five Estuaries offshore wind farm | UndergoingWaiting for DCO Examinationdecision | 2028-2030 | To array: 0 | <u>To array:</u> 12.9 | High | Yes | Potential for cumulative effect during construction and operational phases. Fish | |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|--|-----------------------------------|--------------------------------|--|--|-----------------------|--------------------|---|
| | | | To cable corridor: 0.6 | To cable corridor: 0 | | | and shellfish receptors could be affected if construction of North Falls occurs at a similar time to Five Estuaries OWF due to the close proximity of the Project. |
| East Anglia TWO offshore wind farm | Consent granted | Construction planned mid 2020s | To Array: 31.5 To cable corridor: 31.5 | 37.6 To Array :36.7 To cable corridor: 32.4 | High | Yes | Potential for cumulative effect during construction and operational phase. |
| East Anglia ONE North offshore wind farm | Consent Authorised | 2023-2026 | 63.4To array: 65 To cable corridor: 45.1 | 67.5 To array: 69.7 To cable corridor: 32.5 | High | Yes | Potential for cumulative effect during construction and operational phase. |
| Subsea cables a | nd pipelines | | | | | | |
| NeuConnect Interconnector | Pre-construction | 2023-2028 | 2.5 | 0 | High | Yes | The NeuConnect Interconnector bisects the North Falls offshore cable corridor and interconnector cable corridor and there is potential for temporal overlap of cable installation activities. |
| Nautilus Interconnector | Pre- applicationPreapplication | 2025-2028 | Cable route unknow | n | Low | Yes | The offshore study area for Nautilus intersects with the North Falls offshore project area, Therefore, there is potential for cumulative |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|---|---|------------------------|--|--|-----------------------|--------------------|--|
| | | | | | | | effects, subject to the final location and programme for the interconnector. |
| South & East Anglia (SEA) Link | Pre-applicationUndergoing DCO Examination | 2026-2030 | 5.4 | 0 | Medium | Yes | The emerging preferred and alternative routes for Sea Link intersect with the North Falls offshore cable corridor. Therefore, there is potential for cumulative effects, subject to the final location and programme for the interconnector. |
| Tarchon Energy Interconnector | Pre-application | 2027 - 2030 | Cable route unknow | n | Low | Yes | Interconnector between UK and Germany with potential to be in proximity to the North Falls offshore project area. |
| Aggregate areas | | | | | | | |
| Thames D aggregates production agreement area 524 | Production agreement secured 2022 | 2022-2036 | 0 | 10.3 | Low | Yes | There is potential for some interaction between dredging and aggregate exploration on fish and shellfish ecology. Removal of sediment and sediment plumes have the potential to have a cumulative effect. |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|---|----------------------------|------------------------|---|--|--|--------------------|---------------------------|
| Chapter 12 Mari | ne Mammals | | | | | | |
| Offshore wind fa | arms | | | | | | |
| Bowdun | Concept and early planning | 2029-2033 | 608 | 606 | Low - Project | Yes | Potential for overlapping |
| Buchan | Concept and early planning | 2028-2032 | 745 | 743 | specific assessment unavailable, generic approach used to inform the assessment. | Yes | piling dates. |
| Caledonia | Application submitted | 2028-2030 | 750 | 748 | Medium – cumulative assessment based on submitted assessments. | Yes | |
| Dogger Bank D | Concept & Early Planning | 2029-2030 | 355 | 353 | Low - Project specific assessment unavailable, generic approach used to inform the assessment. | Yes | |
| Dogger Bank South (East and West) | Application submitted | 2026 - 2033 | 285 | 278 | Medium – cumulative assessment based on submitted assessments. | Yes | |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|---|--|------------------------|--|--|--|--------------------|-----------|
| Dudgeon Extension | Consented | 2027-2033 | 156 | 152 | Medium – cumulative assessment based on submitted assessments. | Yes | |
| Five Estuaries offshore wind farm | UndergoingWaiting for DCO Examination decision | 2028-2030 | 0 | 13.3 <u>12.9</u> | Medium – cumulative assessment based on submitted assessments. | Yes | |
| Outer Dowsing | Concept & Early Planning | 2026-2030 | 196 | 200 | Medium – cumulative assessment based on submitted assessments. | Yes | |
| Sheringham Shoal Extension | Consented | 2027-2033 | 161.5 | 153 | Medium – cumulative assessment based on submitted assessments. | Yes | |
| Rampion 2 | Application submitted | 2026-2030 | 201 | 215 | Medium – cumulative assessment based on submitted assessments. | Yes | |
| Aspen | Concept and early planning | 2025-2028 | 665 | 663 | | Yes | |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|----------------------------------|----------------------------|------------------------|---|--|--|--------------------|--|
| Ayre | Concept and early planning | 2029-2033 | 816 | 813 | Low - Project | Yes | Potential for overlapping |
| Beech | Concept and early planning | 2024-2028 | 662 | 660 | specific assessment | Yes | construction phases. |
| Bellrock | Concept and early planning | Unknown | 568 | 566 | unavailable, | Yes | |
| Cedar | Concept and early planning | 2024-2028 | 558 | 556 | generic approach used | Yes | |
| Dunkerque | Application submitted | 2026-2028 | 60 | 72 | to inform the assessment. | Yes | |
| Dylan | Concept and early planning | Unknown | 774 | 785 | assessificit. | Yes | |
| Hornsea Project Four | Consented | 2026-2028 | 230 | 227 | Medium – cumulative | Yes | Potential for overlapping construction phases. |
| Hornsea Project Three | Consented | 2024-2027 | 218 | 217 | assessment based on submitted assessments. | Yes | |
| MaramWind | Concept and early planning | 2026-2030 | 708 | 706 | Low - Project | Yes | |
| Morven | Concept and early planning | 2027-2030 | 545 | 543 | specific assessment | Yes | |
| Muir Mhor | Concept and early planning | 2027-2030 | 638 | 636 | unavailable, | Yes | |
| Dunkerque | Concept & Early Planning | N/A | 62.7 | 74.9 | generic approach used | Yes | Potential for overlapping |
| Nordsee Cluster A – N- 3.7 | Concept & Early Planning | N/A | 448 | 554 | to inform the assessment. | Yes | construction phases. |
| Nordsee Cluster A – N- 3.8 | Concept & Early Planning | N/A | 448 | 554 | | Yes | |
| Nordsee Cluster B – N- 3.5 | Concept & Early Planning | 2028-2029 | 416 | 410 | | Yes | Potential for overlapping construction phases. |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|----------------------------------|--------------------------|------------------------|--|--|--|--------------------|-----------|
| Nordsee Cluster B – N- 3.6 | Concept & Early Planning | 2028-2029 | 410 | 404 | | Yes | |
| Norfolk Vanguard | Consented | N/A | 120.5 | 125.4 | Medium – cumulative assessment based on submitted assessments. | Yes | |
| Ossian | Application submitted | 2024-2028 | 545 | 543 | Medium – cumulative assessment based on submitted assessments. | Yes | |
| Rømø | Concept & Early Planning | 2027 | 560 | 554 | Low - Project | Yes | |
| Salamander (floating) | Concept & Early Planning | 2026-2028 | 6754 | 673 | specific assessment unavailable, generic approach used to inform the assessment. | | |
| Seagreen 1A | Consent authorised | 2026-2027 | 580 | 578 | Medium – | | |
| West Of Orkney | Concept & Early Planning | N/A | 885 | 891 | cumulative assessment based on submitted assessments. | Yes | |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|--|--|------------------------|--|--|--|--------------------|---|
| Aggregate extra | ction and dredging projects | | | | | | |
| Greenwich Light East (473/2; Hanson Aggregates Marine Ltd) | Production Agreement Area | N/A | 163 | 177 | Low - Project specific assessment unavailable, generic | Yes | Potential for overlapping activities. |
| Greenwich Light East (473/1; Hanson Aggregates Marine Ltd) | Production Agreement Area | N/A | 171 | 184 | approach used to inform the assessment. | | |
| Inner Dowsing 481/1-2 | Production Agreement Area | N/A | 199 | 194 | | | |
| Inner Owers North 488 | Production Agreement Area | N/A | 231 | 243 | | | |
| Thames D 524 | Production Agreement Area | N/A | 0 | 12 | | | |
| West Bassurelle 458 | Production Agreement Area | N/A | 153 | 166 | | | |
| West Bassurelle 464 | Production Agreement Area | N/A | 155 | 168 | | | |
| Subsea cables a | and pipelines | | | | | | |
| SeaSouth & East Anglia (SEA) Link | Concept & Early PlanningUndergoing DCO Examination | N/A | 5. <u>264</u> | 0 | Medium – cumulative assessment based on submitted assessments. | Yes | Potential for overlapping construction phases |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|----------------------------|---|------------------------|--|--|--|--------------------|---|
| Chapter 13 Offsl | hore Ornithology | | | | | | |
| Beatrice (demonstrator) | Built and operational, fully commissioned July 2007 | N/A | 774.46 | 753.88 | Complete but limited quantitative species assessment. | Yes | Included as an operational project. Due to be decommissioned between 2024 and 2027. |
| Beatrice | Built and operational, fully commissioned May 2019 | N/A | 774.46 | 753.88 | Complete for the ornithology receptors being assessed. | Yes | Included as an operational project. |
| Blyth Demonstration | Built and operational, fully commissioned Oct 2017 | N/A | 429.39 | 405.74 | Complete but limited quantitative species assessment. | Yes | Included as an operational project. |
| Dudgeon | Built and operational, fully commissioned November 2017 | N/A | 160.92 | 147.07 | Complete but limited quantitative species assessment. | Yes | Included as an operational project. |
| East Anglia ONE | Built and operational, fully commissioned July 2020 | N/A | 53.08 | 59.24 | Complete for the ornithology receptors being assessed. | Yes | Included as an operational project. |
| EOWDC (Aberdeen OWF) | Built and operational, fully commissioned Sep 2018 | N/A | 653.11 | 632.86 | Complete for the ornithology receptors being assessed. | Yes | Included as an operational project. |

| Project | Status | Construction Period | Closest Distance from the Array array area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|--|---|------------------------|--|--|--|--------------------|-------------------------------------|
| Greater Gabbard Offshore Windfarm | Built and operational, fully commissioned August 2013 | N/A | 0.00 | 3.91 | Complete for the ornithology receptors being assessed. | Yes | Included as an operational project. |
| Gunfleet Sands | Built and operational, fully commissioned Jun 2010 | N/A | 39.00 | 6.00 | Complete for the ornithology receptors being assessed. | Yes | Included as an operational project. |
| Galloper Wind Farm | Built and operational, fully commissioned March 2018 | N/A | 0.00 | 6.35 | Complete for the ornithology receptors being assessed. | Yes | Included as an operational project. |
| Hornsea Project One | Built and operational, fully commissioned 2020 | N/A | 225.84 | 216.80 | Complete for the ornithology receptors being assessed. | Yes | Included as an operational project. |
| Hornsea Project Two | Built and operational, fully commissioned August 2022 | N/A | 227.55 | 216.59 | Complete for the ornithology receptors being assessed. | Yes | Included as an operational project. |
| Humber Gateway | Built and operational, fully commissioned May 2015 | N/A | 229.65 | 207.31 | Complete but limited quantitative species assessment. | Yes | Included as an operational project. |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|----------------------------|--|------------------------|--|--|---|--------------------|-------------------------------------|
| Hywind | Built and operational, fully commissioned Oct 2017 | N/A | 665.57 | 647.09 | Complete but limited quantitative species assessment. | Yes | Included as an operational project. |
| Kentish Flats | Built and operational, fully commissioned Dec 2005 | N/A | 54.59 | 38.08 | Complete but limited quantitative species assessment. | Yes | Included as an operational project. |
| Kentish Flats Extension | Built and operational, fully commissioned Oct 2015 | N/A | 54.59 | 39.70 | Complete but limited quantitative species assessment. | Yes | Included as an operational project. |
| Kincardine | Built and operational, fully commissioned Oct 2021 | N/A | 626.20 | 605.83 | Complete but limited quantitative species assessment. | Yes | Included as an operational project. |
| Lincs | Built and operational, fully commissioned Sep 2013 | N/A | 176.80 | 153.31 | Complete but limited quantitative species assessment. | Yes | Included as an operational project. |
| London Array | Built and operational, fully commissioned Apr 2013 | N/A | 20.59 | 15.52 | Complete but limited quantitative species assessment. | Yes | Included as an operational project. |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|---------------------------|---|------------------------|--|--|--|--------------------|-------------------------------------|
| Lynn and Inner Dowsing | Built and operational, fully commissioned Mar 2009 | N/A | 177.34 | 153.75 | Complete but limited quantitative species assessment. | Yes | Included as an operational project. |
| Moray East | Built and operational, fully commissioned April 2022 | N/A | 761.98 | 742.04 | Complete for the ornithology receptors being assessed. | Yes | Included as an operational project. |
| Race Bank | Built and operational, fully commissioned February 2018 | N/A | 173.38 | 153.52 | Complete but limited quantitative species assessment. | Yes | Included as an operational project. |
| Rampion | Built and operational, fully commissioned November 2018 | N/A | 177.82 | 158.76 | Complete for the ornithology receptors being assessed. | Yes | Included as an operational project. |
| Scroby Sands | Built and operational, fully commissioned Dec 2004 | N/A | 92.78 | 84.41 | Complete but limited quantitative species assessment. | Yes | Included as an operational project. |
| Sheringham Shoal | Built and operational, fully commissioned Sep 2012 | N/A | 152.60 | 135.65 | Complete but limited quantitative species assessment. | Yes | Included as an operational project. |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|---|--|------------------------|--|--|--|--------------------|-------------------------------------|
| Teesside | Built and operational, fully commissioned Aug 2013 | N/A | 373.71 | 349.33 | Complete but limited quantitative species assessment. | Yes | Included as an operational project. |
| Thanet | Built and operational, fully commissioned Sep 2010 | N/A | 24.92 | 36.16 | Complete for the ornithology receptors being assessed. | Yes | Included as an operational project. |
| Triton Knoll | Built and operational, fully commissioned Oct 2021 | N/A | 190.27 | 172.38 | Complete for the ornithology receptors being assessed. | Yes | Included as an operational project. |
| Westermost Rough | Built and operational, fully commissioned May 2015 | N/A | 250.38 | 228.07 | Complete for the ornithology receptors being assessed. | Yes | Included as an operational project. |
| Dogger Bank A and B (formerly Creyke Beck A and B) | Offshore construction began April 2022, Doggerbank A partially generation from October 2023 | N/A | 318.50 | 309.98 | Complete for the ornithology receptors being assessed. | Yes | Included as a consented project. |
| Dogger bank C and Sofia (formerly Dogger bank Teeside A and B) | Sofia onshore works began mid-2021, converter station and export cable route 2022, offshore works due 2023, completion due 2026. | N/A | 339.14 | 332.23 | Complete for the ornithology receptors being assessed. | Yes | Included as a consented project. |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|----------------------------------|---|------------------------|--|--|--|--------------------|----------------------------------|
| Moray West | Offshore construction began Feb 2023. Due to be fully operational by 2025 | N/A | 763.65 | 742.98 | Complete for the ornithology receptors being assessed. | Yes | Included as a consented project. |
| Neart na Gaoithe | Offshore construction began 2020, completion due 2024 | N/A | 559.53 | 536.96 | Complete for the ornithology receptors being assessed. | Yes | Included as a consented project. |
| Seagreen (Alpha and Bravo) | 114 turbines fully operational October 2023. S36 consent variation for 36 additional turbines | N/A | 572.35 | 552.01 | Complete for the ornithology receptors being assessed. | Yes | Included as a consented project. |
| East Anglia ONE North | Consented March 2022. Onshore construction due to start 2025, offshore construction due to start 2027 | N/A | 63.07 <u>65.01</u> | 67.43 <u>69.73</u> | Complete for the ornithology receptors being assessed. | Yes | Included as a consented project. |
| East Anglia THREE | Consented August 2017. No construction start date | N/A | 98.77 | 104.22 | Complete for the ornithology receptors being assessed. | Yes | Included as a consented project. |
| East Anglia TWO | Consented March 2022. No construction start date | N/A | 31.49 | 36.67 | Complete for the ornithology receptors being assessed. | Yes | Included as a consented project. |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|--|--|------------------------|--|--|--|--------------------|---|
| Green Volt | Consented 19 April 2024 | N/A | 691.50 | 675.24 | Complete for the ornithology receptors being assessed. | Yes | Outputs from the ES have been included. |
| Hornsea Project Three | Consented Dec 2020. Construction due to start 2024 | N/A | 218.40 | 217.21 | Complete for the ornithology receptors being assessed. | Yes | Included as a consented project. |
| Hornsea Project Four | Consented July 2023. No construction start date | N/A | 229.15 | 216.62 | Complete for the ornithology receptors being assessed. | Yes | Included as a consented project. |
| Inch Cape | Consented Sep 2014, revised June 2019. No construction start date. | N/A | 579.15 | 557.03 | Complete for the ornithology receptors being assessed. | Yes | Included as a consented project. |
| Methil (Forthwind Demonstration) | Consented December 2016. New consent authorised March 2023. | N/A | 584.74 | 559.18 | Complete for the ornithology receptors being assessed. | Yes | Included as a consented project. |
| Norfolk Boreas | Consented Dec 2021. Work paused until further notice | N/A | 132.04 | 134.56 | Complete for the ornithology receptors being assessed. | Yes | Included as a consented project. |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|--|--|------------------------|--|--|--|--------------------|---|
| Norfolk Vanguard | Consented Feb 2022. Construction was due to begin Sep 2023 | N/A | 95.76 | 117.16 | Complete for the ornithology receptors being assessed. | Yes | Included as a consented project. |
| Sheringham and Dudgeon Extension Projects | Consented 18 April 2024 | N/A | 150.51 | 134.07 | Complete for the ornithology receptors being assessed. | Yes | Outputs from the ES / DCO examination have been included. |
| Berwick Bank | Application submitted August 2023 | N/A | 522.45 | 501.36 | Complete for the ornithology receptors being assessed. | Yes | Outputs from the ES have been included. |
| Dogger Bank South | DCO Application submitted 12 June 2024, accepted 10 July | N/A | 285.19 | 276.33 | Complete for the ornithology receptors being assessed. | Yes | Outputs from the PEIR have been included. |
| Five Estuaries offshore wind farm | UndergoingWaiting for DCO Examinationdecision | N/A | 0.00 | 12.93 | Complete for the ornithology receptors being assessed. | Yes | Outputs from the PEIR have been included. |
| Outer Dowsing | DCO application accepted 16 April 2024 | N/A | 193.46 | 177.64 | Complete for the ornithology receptors being assessed. | Yes | Outputs from the PEIR have been included. |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|--------------------------------------|---|------------------------|--|--|--|--------------------------------------|--|
| Rampion 2 | Application submitted. Project in examination | N/A | 171.11 | 155.25 | Complete for the ornithology receptors being assessed. | Yes | Outputs from the ES have been included. |
| West of Orkney | Application submitted Sept 2023 | N/A | 869.58 | 847.96 | Complete for the ornithology receptors being assessed. | Yes | Outputs from the ES have been included. |
| South & East Anglia (SEA) Link | Pre-application Undergoing DCO Examination | N/A | 5.4 | 0 | Medium | Yes (Red- throated diver only) | Outputs from the PEIR have been included. |
| Chapter 14 Com | mercial Fisheries | | | | | | |
| Offshore wind fa | ırms | | | | | | |
| Five Estuaries offshore wind | UndergoingWaiting for DCO Examinationdecision | 2028-2030 | To array: 0 | <u>To array:</u> 12.9 | High | Yes | Potential for cumulative effects due to the |
| <u>farm</u> | | | To cable corridor: 0.6 | To cable corridor: 0 | | | proximity of the project. |
| East Anglia | Consented | Mid 2020s | <u>To array:</u> 31.5 | 37.6 -To array :36.7 | High | Yes | Potential for cumulative |
| TWO | | | To cable corridor: 31.5 | To cable corridor: 32.4 | | | effects due to the proximity of the project. |
| East Anglia | Consented | Late 2020s | 63.4-To array: 65 | 67.5 To array: 69.7 | High | Yes | Potential for cumulative |
| One North | | | To cable corridor: 45 | To cable corridor: 32.5 | | | effects due to the proximity of the project. |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|--|-----------------------------------|------------------------|--|--|-----------------------|--------------------|---|
| Belgian Princess Elizabeth Zone | Development Zone | Unknown | 32.9 | 47.5 | High | Yes | Potential for cumulative effects due to the proximity of the project. |
| Aggregate Site A | greements | | | | | | |
| Thames D aggregates production agreement area 524 | Production agreement secured 2022 | 2022-2036 | 0 | 10.3 | Incomplete | Yes | Potential for cumulative effects due to the proximity of the project. |
| Southwold East aggregates production agreement area 430 | Operational since 2012 | N/A | 50.1 | 48.4 | High | Yes | Potential for cumulative effects due to the proximity of the project. |
| North Inner Gabbard aggregate production area 498 | Operational since 2015 | N/A | 24.7 | 24 | High | Yes | Potential for cumulative effects due to the proximity of the project. |
| Shipwash aggregate exploration and option area 507 | Operational since 2016 | N/A | 19.6 | 9.8 | High | Yes | Potential for cumulative effects due to the proximity of the project. |
| Longsand aggregate exploration and option area 508 | Operational since 2014 | N/A | 13.9 | 5.8 | High | Yes | Potential for cumulative effects due to the proximity of the project. |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|--|---|------------------------|--|--|-----------------------|--------------------|--|
| Longsand aggregate exploration and option area 509 | Operational since 2015 | N/A | 13.8 | 2.1 | High | Yes | Potential for cumulative effects due to the proximity of the project. |
| Longsand aggregate exploration and option area 510 | Operational since 2015 | N/A | 9.5 | 3.5 | High | Yes | Potential for cumulative effects due to the proximity of the project. |
| North Falls East aggregate exploration and option area 501 | Operational since 2017 | N/A | 13.2 | 27.5 | High | Yes | Potential for cumulative effects due to the proximity of the project. |
| Marine Protected | d Areas | | | | | | |
| Dogger Bank SAC | Designated in 2022 | N/A | 274.5 | 269.0 | High | Yes | Associated byelaws prohibiting bottom-towed fishing gear. |
| Inner Dowsing, Race Bank and North Ridge SAC | Designated in 2022 | N/A | 159.7 | 142.1 | High | Yes | Associated byelaws prohibiting bottom-towed fishing. |
| Cables | | | | | | | |
| South & East Anglia (SEA) Link | Preapplication Undergoing DCO Examination | 2026-2030 | 5.4 | 0 | Medium | Yes | The emerging preferred and alternative routes for Sea Link intersect with the North Falls offshore cable corridor. Therefore, there is |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|------------------------------|----------------------------------|------------------------|---|--|-----------------------|--|---|
| | | | | | | | potential for cumulative effects, subject to the final location and programme for the interconnector. |
| Cronos | Early Planning | Unknown | 30.7 | 46.1 | Low | Insufficient available information | There is potential for cumulative effects due to proximity, however the project is in the early planning phase and therefore there is insufficient information available to assess. |
| NeuConnect Interconnector | Pre-construction | 2023-2028 | 2.5 | 0 | High | Yes | The NeuConnect Interconnector bisects the North Falls offshore cable corridor and there is potential for temporal overlap of cable installation activities. |
| Gridlink | Consent Application Submitted | N/A | 34.9 | 40.3 | High | Yes | There is potential for cumulative effects due to proximity. |
| Nautilus Interconnector | Pre-application | 2025-2028 | Cable route unknow | 'n | Low | Yes | The offshore study area for Nautilus intersects with the North Falls offshore project area. Therefore, there is potential for cumulative effects, subject to the final location and programme for the interconnector. |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|-----------------------------------|---|------------------------|--|--|-----------------------|--------------------|--|
| EuroLink | Early Planning | N/A | 28.7 | 33.4 | Low | Yes | There is potential for cumulative effects due to proximity. |
| Chapter 15 Ship | ping and Navigation | | | | | | |
| Five Estuaries offshore wind farm | UndergoingWaiting for DCO Examinationdecision | 2028-2030 | To array: 0 To cable corridor: 0.6 | 0.7-To array: 12.9 To cable corridor: 0 | Medium High | Yes | OWF project within 50nm, potential for cumulative impacts in relation to allision, displacement, collision and emergency response. |
| East Anglia ONE North | Consented | 2023-2026 | 34-To array: 65 To cable corridor: 45 | 36-To array: 69.7 To cable corridor: 32.5 | High | Yes | OWF within 50nm, no interaction with main routes impacted by North Falls. |
| East Anglia TWO | Consented | 2023-2026 | 16.9-To array: 31.5 To cable corridor: 31.5 | 20.3-To array :36.7 To cable corridor: 32.4 | High | Yes | OWF within 50nm, no interaction with main routes impacted by North Falls. |
| Dunkerque | In Planning | 2026-2029 | 31.8 | 39 | Medium | Yes | OWF within 50nm, no interaction with main routes impacted by North Falls. |
| NeuConnect Interconnector | In construction | 2023-2028 | 1.3 | 0 | High | Yes | Subsea cables within 2nm. |
| Nautilus Interconnector | Pre-application | 2025-2028 | Cable route unknow | n | Low | Yes | The offshore study area for Nautilus intersects with the North Falls. Therefore, there is potential for cumulative |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|--------------------------------------|--|------------------------|--|--|-----------------------|--------------------|--|
| | | | | | | | effects, subject to the final location and programme for the interconnector. |
| South & East Anglia (SEA) Link | Pre-application Undergoing DCO Examination | 2026-2030 | 2.9 | 0 | Medium | Yes | The emerging preferred and alternative routes for Sea Link intersect with the offshore cable corridor. |
| Tarchon Energy Interconnector | Pre-Planning | 2027-2030 | Cable route unknown | | Low | Yes | Interconnector between UK and Germany with potential to be in proximity to the North Falls. |
| Chapter 16 Offsh | ore and Intertidal Archaeolog | y and Cultural Herita | age | | | | |
| Interconnectors | | | | I | <u> </u> | I | |
| NeuConnect Interconnector | Pre-consent | 2023-2028 | 2.5 | 0 | High | Yes | Projects have a footprint which may overlap with |
| BritNed Interconnector | Operational since 2009 | N/A | 0 | 9.3 | High | Yes | North Falls resulting in potential cumulative direct (physical) impact |
| Nautilus Interconnector | Pre-application | 2025-2028 | Cable route currently the offshore study ar intersects with the N project area) | ea for Nautilus | Low | Yes | to potential heritage assets. For indirect impact to heritage assets from changes to |
| South & East Anglia (SEA) Link | Pre-applicationUndergoing DCO Examination | 2026-2030 | 5.4 | 0 | Medium | Yes | physical processes (ES Chapter 8 Marine Geology, Oceanography and Physical Processes |
| Lion Link | Pre-application | 2027-2030 | Cable route unknow | า | Low | Yes | Table 8.48 [APP-022]), |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|---|--|--------------------------------|--|--|-----------------------|--------------------|---|
| Tarchon Energy Ltd – EA Green Interconnector | Pre-planning | 2027-2030 | Cable route currently with potential to be it North Falls offshore | n proximity to the | Low | Yes | there is potential for temporal overlap of cable installation activities with NeuConnect. Nautilus Interconnector, SEA Link and Tarchon Interconnector. |
| Offshore wind fa | rms | | | | | | |
| Greater Gabbard OWF | Operational since 2012 | N/A | To array: 0 To cable corridor: | To array: 3.9 To cable corridor: 5.4 | High | Yes | The results of surveys and evaluations, and the distribution of reported |
| Galloper OWF | Operational since 2018 | N/A | To array: 0 To cable corridor: 5.4 | To array: 6.4 To cable corridor: 11.4 | High | Yes | discoveries cumulatively form part of a collective body of information regarding the marine historic environment |
| Five Estuaries OWFoffshore wind farm | UndergoingWaiting for DCO Examination decision | 2028-2030 | To array: 0 To cable corridor: 0.6 | To array: 12.949 To cable corridor: 0 | High | Yes | within the Thames region. These offshore renewables projects should be considered to |
| East Anglia TWO OWF | Consent granted | Construction planned mid 2020s | To array: 31.5 To cable corridor: 31.5 | To array: 36.7 To cable corridor: 32.4 | High | Yes | have the potential to result in multiple direct (physical) impact to potential heritage assets |
| Thanet OWF | Operational since 2010 | N/A | 24.9 | 36.2 | High | Yes | which traverse the boundaries of the OWFs |
| London Array OWF | Operational since 2013 | N/A | 20.6 | 15.5 | High | Yes | such as palaeolandscapes, and maritime and aviation networks relating to conflicts, migration and trade routes, for example |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|-------------------------------------|------------------------|------------------------|--|--|-----------------------|--------------------|---|
| Gunfleet Sands OWF | Operational since 2010 | N/A | 39 | 6 | High | Yes | For indirect impact to heritage assets from changes to physical processes, there is a potential cumulative effect on wave and tidal regime, and from ongoing maintenance activities with Greater Gabbard OWF, Galloper OWF and potential for interaction between the dredging plumes from the cable / foundation installation for Five Estuaries. East Anglia TWO, Thanet, Gunfleet and London Array are screened out for CEA in ES Chapter 8 Marine Geology, Oceanography and Physical Processes [APP-022] (Table 8.48). As such there is no pathway for indirect impacts to heritage assets from these wind farms |
| Aggregates | | | | | | | |
| Outer OTE aggregate exploration and | Unknown | 2016-2024 | 9.4 | 14 | Low | Yes | The results of surveys and evaluations, and the distribution of reported |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|--|------------------------|------------------------|--|--|-----------------------|--------------------|---|
| option area 528/2 | | | | | | | discoveries form part of a collective body of |
| Thames D aggregates production agreement area 524 | Unknown | 2022-2036 | 0 | 10.3 | Incomplete | Yes | information regarding the marine historic environment within the Thames region. These marine aggregate license areas should be considered to have the potential to result in multiple direct (physical) impact to potential heritage assets which traverse the boundaries of the OWFs such as palaeolandscapes, and maritime and aviation networks relating to conflicts, migration and trade routes, for example. For indirect impact to heritage assets from changes to physical processes (ES Chapter 8 Marine Geology, Oceanography and Physical Processes Table 8.48 [APP-022]), there is potential for some interaction between the dredging plumes from the aggregate exploration |
| Southwold East aggregates production agreement area 430 | Operational since 2012 | 2012-2025 | 50.1 | 48.4 | High | Yes | |
| North Inner Gabbard aggregate production agreement area 498 | Operational since 2015 | 2012-2030 | 24.7 | 24 | High | Yes | |
| Shipwash aggregate production agreement area 507 | Operational since 2016 | 2012-2031 | 19.6 | 9.8 | High | Yes | |
| Longsand production agreement area 508 | Operational since 2014 | 2014-2029 | 13.9 | 5.8 | High | Yes | |
| Longsand aggregate production | Operational since 2015 | 2015-2030 | 13.8 | 2.1 | High | Yes | |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|--|------------------------|------------------------|--|--|-----------------------|--------------------|---|
| agreement area 509 | | | | | | | and option areas and plumes from cable / |
| Longsand aggregate production agreement area 510 | Operational since 2015 | 2015-2030 | 9.5 | 3.5 | High | Yes | foundation installation / decommissioning and operation and maintenance activities with the Thames D aggregates production agreement area 524. All other aggregates sites were operational at the time of the North Falls characterisation surveys and are a component of the baseline environment. |
| North Falls East aggregate production agreement area 501 | Operational since 2017 | 2017-2032 | 13.2 | 25.3 | High | Yes | |
| Chapter 17 Aviat | ion and Radar | | | | | | |
| Galloper Offshore Wind Farm | Operational | N/A | 0 | N/A | High | Yes | Proximity to North Falls. |
| Greater Gabbard Offshore Wind Farm | Operational | N/A | 0 | N/A | High | Yes | Proximity to North Falls. |
| London Array Offshore Wind Farm | Operational | N/A | 21 | N/A | High | Yes | Proximity to North Falls. |
| Thanet Offshore Wind Farm | Operational | N/A | 25 | N/A | High | Yes | Proximity to North Falls. |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|---|---|------------------------|--|--|-----------------------|--------------------|--|
| Gunfleet Sands Offshore Wind Farm | Operational | N/A | 39 | N/A | High | Yes | Proximity to North Falls. |
| East Anglia ONE Offshore Wind Farm | Operational | N/A | 53 | N/A | High | Yes | Proximity to North Falls. |
| East Anglia TWO Offshore Wind Farm | Operational | N/A | 31 | N/A | High | Yes | Proximity to North Falls. |
| East Anglia ONE NORTH Offshore Wind Farm | Operational | N/A | 63 | N/A | High | Yes | Proximity to North Falls. |
| Five Estuaries Offshore Wind Farm | UndergoingWaiting for DCO Examinationdecision | N/A | 0 | N/A | High | Yes | Proximity to North Falls. |
| Chapter 18 Infras | structure and Other Users | | | | | | |
| Five Estuaries Offshore Wind Farm | UndergoingWaiting for DCO Examinationdecision | 2028-2030 | To array: 0 To cable corridor: 0.6 | 12.9 from the Five Estuaries array areas (0km from the Five Estuaries offshore cable corridor).To array: 12.9 To cable corridor: 0 | Medium | Yes | Potential for cumulative effect during construction and operational phases due to the proximity of the projects. |
| | Consent granted | | <u>To array:</u> 31.5 | <u>To array :</u> 36.7 | High | Yes | |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|---|--|--------------------------------|--|--|-----------------------|--------------------|---|
| East Anglia TWO OWF | | Construction planned mid 2020s | To cable corridor: 31.5 | To cable corridor: 32.4 | | | |
| NeuConnect Interconnector | Construction | 2022-2028 | 2.5 | 0 | High | Yes | The NeuConnect Interconnector bisects the North Falls offshore cable corridor and there is potential for temporal overlap of cable installation activities. |
| South & East Anglia (SEA) Link | Pre-planningUndergoing DCO Examination | 2026-2030 | 5.4 | 0 | Medium | Yes | The SeaLink Interconnector bisects the North Falls offshore cable corridor and there is potential for temporal overlap of cable installation activities. |
| Outer OTE aggregate exploration and option area 528/2 | Unknown | 2016-2024 | 9.4 | 14 | Low | Yes | There is potential for some interaction between dredging and aggregate exploration on navigational safety. |
| Thames D aggregates production agreement area 524 | Production agreement secured 2022 | 2022-2036 | 0 | 10.3 | Low | Yes | Presence of multiple vessels have the potential to have a cumulative effect. |
| Southwold East aggregates production | Operational since 2012 | 2012-2025 | 50.1 | 48.4 | Medium | Yes | |

| Project | Status | Construction Period | Closest Distance from the Arrayarray area (km) | Closest Distance from the Offshore Cable Corridor (km) | Confidence in Data | Included in CEA | Rationale |
|---|------------------------|------------------------|---|--|-----------------------|--------------------|-----------|
| agreement area 430 | | | | | | | |
| North Inner Gabbard aggregate production area 498 | Operational since 2015 | 2012-2030 | 24.7 | 24 | Medium | Yes | |
| Shipwash aggregate production area 507 | Operational since 2016 | 2012-2031 | 19.6 | 9.8 | High | Yes | |
| Longsand aggregate production area 508 | Operational since 2014 | 2014-2029 | 13.9 | 5.8 | Medium | Yes | |
| Longsand aggregate production area 509 | Operational since 2015 | 2015-2030 | 13.8 | 2.1 | Medium | Yes | |
| Longsand aggregate production area 510 | Operational since 2015 | 2015-2030 | 9.5 | 3.5 | Medium | Yes | |
| North Falls East aggregate production area 501 | Operational since 2017 | 2017-2032 | 13.2 | 25.3 | Medium | Yes | |

Table 1.2 Projects included in the CEA for onshore technical assessments

| Project | Status Conditions and Contan | Construction Period | Closest Distance from the Onshore Project Area (km) | Confidence in Data | Included in CEA | Rationale |
|---|---|------------------------|--|-----------------------|--------------------|---|
| National Infrastruct | | <u>IIIIauoii</u> | | | | |
| Five Estuaries Offshore Wind Farm EN010115 | UndergoingWaiting for DCO Examinationdecision | 2028-2030 | Five Estuaries project area directly overlaps with North Falls onshore project area. | High | Yes | There is a spatial overlap between the onshore project area for North Falls and Five Estuaries. There is also the potential for there to be a temporal overlap during construction and operational phases of both Five Estuaries and North Falls. Therefore, cumulative effects may occur. |
| Norwich to Tilbury EN020027 | Pre-application | 2027-2031 | Project area directly overlaps with North Falls onshore project area. | High | Yes | The proposed Norwich to Tilbury project seeks to reinforce the high voltage power network in East Anglia between existing substations (Norwich Main, Bramford in Suffolk and Tilbury in Essex) as well as connect the Five Estuaries and North Fall Offshore Wind Farm developments to the network. There is a spatial overlap between the proposed location of the Norwich to Tilbury substation and the North Falls substation compound, the cables which will connect North Falls into the Norwich to Tilbury substation and any additional works required to facilitate the connection, therefore there is the potential for cumulative effects to occur. |

| Project | Status | Construction Period | Closest Distance from the Onshore Project Area (km) | Confidence in Data | Included in CEA | Rationale | | | |
|---|---|--|--|-----------------------|--------------------|---|--|--|--|
| Chapter 20 Onshore Air Quality | | | | | | | | | |
| National Infrastruct | ure Planning | | | | | | | | |
| Five Estuaries Offshore Wind Farm EN010115 | UndergoingWaiting for DCO Examinationdecision | 2028-2030 | Five Estuaries project area directly overlaps with North Falls onshore project area. | High | Yes | The onshore project area for Five Estuaries covers largely the same area as North Falls. There is also a possibility that both projects could be constructed at around the same time, therefore, cumulative effects may occur. | | | |
| Norwich to Tilbury EN020027 | Pre-application | 2027-2031 | Project area directly overlaps with North Falls onshore project area. | High | Yes | The proposed substation area for Norwich to Tilbury is in close proximity to North Falls proposed onshore substation works area; and the proposed new substation operational access road overlaps with the Bentley Road improvement works. Therefore, cumulative effects could occur. | | | |
| Tendring District Co | ouncil | | | | | | | | |
| Bathside Bay Stour Road Harwich Essex CO12 3HF | Awaiting decision | 2026-2028 (For Green Energy Hub) | 18 | High | Yes | The project is beyond 500m from the North Falls onshore project area. As detailed in ES Chapter 27 Traffic and Transport [APP-041], a Transport Assessment and ES traffic and transport chapter is provided in support of this scheme. A review of these documents identifies a potential temporal overlap and spatial overlap between this scheme's and North Falls' traffic and transport study areas. Therefore, it is assessed that there is | | | |

| Project | Status | Construction Period | Closest Distance from the Onshore Project Area (km) | Confidence in Data | Included in CEA | Rationale |
|---|---|------------------------|--|-----------------------|--------------------|--|
| | | | | | | the potential for cumulative effects to occur. |
| Chapter 21 Water R | tesources and Flood Ris | sk | | | | |
| National Infrastruct | ure Planning | | | | | |
| Five Estuaries Offshore Wind Farm EN010115 | UndergoingWaiting for DCO Examinationdecision | 2028-2030 | Five Estuaries project area directly overlaps with North Falls onshore project area. | High | Yes | The onshore project area for Five Estuaries covers largely the same area as North Falls. There is also a possibility that both projects could be constructed at around the same time, therefore, cumulative effects may occur. |
| Norwich to Tilbury EN020027 | Pre-application | 2027-2031 | Project area directly overlaps with North Falls onshore project area. | High | Yes | The proposed substation area for Norwich to Tilbury is in close proximity to the North Falls proposed substation zone. Therefore, cumulative effects could occur. |
| Chapter 22 Land Us | se and Agriculture | | | | | |
| National Infrastruct | ure Planning | | | | | |
| Five Estuaries Offshore Wind Farm EN010115 | UndergoingWaiting for DCO Examinationdecision | 2028-2030 | Five Estuaries project area directly overlaps with North Falls onshore project area. | High | Yes | There is a spatial overlap between the onshore project area for North Falls and Five Estuaries. There is also the potential for there to be a temporal overlap during construction and operational phases of both Five Estuaries and North Falls. Therefore, cumulative effects may occur. |
| Norwich to Tilbury EN020027 | Pre-application | 2027-2031 | Project area directly overlaps with North Falls onshore project area. | Low | Yes | The proposed Norwich to Tilbury project seeks to reinforce the high voltage power network in East Anglia between existing substations (Norwich |

| Project | Status | Construction Period | Closest Distance from the Onshore Project Area (km) | Confidence in Data | Included in CEA | Rationale |
|---------|--------|------------------------|---|-----------------------|--------------------|---|
| | | | | | | Main, Bramford in Suffolk and Tilbury in Essex) as well as connect the Five Estuaries and North Fall Offshore Wind Farm developments to the network. There is a spatial overlap between the proposed location of the Norwich to Tilbury substation and the North Falls substation compound, the cables which will connect North Falls into the Norwich to Tilbury substation and any additional works required to facilitate the connection, therefore there is the potential for cumulative effects to occur. At the time of assessment, the information available regarding Norwich to Tilbury was limited by the maturity of the scheme at the point of assessment (i.e. the publication of the Norwich to Tilbury PEIR). However, the information available at this time was used to undertake a reasonable assessment of the potential cumulative effects of North Falls and Norwich to Tilbury. |

| Project | Status | Construction Period | Closest Distance from the Onshore Project Area (km) | Confidence in Data | Included in CEA | Rationale |
|---|---|------------------------|--|-----------------------|--------------------|---|
| Chapter 23 Onshore | e Ecology | | | | | |
| National Infrastruct | ure Planning | | | | | |
| Five Estuaries Offshore Wind Farm EN010115 | UndergoingWaiting for DCO Examinationdecision | 2028-2030 | Five Estuaries project area directly overlaps with North Falls onshore project area. | High | Yes | The onshore project area for Five Estuaries covers largely the same area as North Falls. There is also a possibility that both projects could be constructed at around the same time, therefore, cumulative effects may occur. |
| Norwich to Tilbury EN020027 | Pre-application | 2027-2031 | Project area directly overlaps with North Falls onshore project area. | Low | Yes | The proposed substation area for Norwich to Tilbury overlaps with the North Falls onshore project area, to the west on the onshore substation works area and the proposed new substation operational access road overlaps and Bentley Road improvement works. Therefore, cumulative effects could occur. At the time of assessment, the information available regarding Norwich to Tilbury was limited by the maturity of the scheme at the point of assessment (i.e. the publication of the Norwich to Tilbury PEIR). However, the information available at this time was used to undertake a reasonable assessment of the potential cumulative effects of North Falls and Norwich to Tilbury. |

| Project | Status | Construction Period | Closest Distance from the Onshore Project Area (km) | Confidence in Data | Included in CEA | Rationale | | | |
|--|---|-----------------------------|--|-----------------------|--------------------|--|--|--|--|
| Chapter 24 Onshore Ornithology | | | | | | | | | |
| National Infrastruct | ure Planning | | | | | | | | |
| Five Estuaries Offshore Wind Farm EN010115 | UndergoingWaiting for DCO Examinationdecision | 2028-2030 | Five Estuaries project area directly overlaps with North Falls onshore project area. | High | Yes | The onshore project area for Five Estuaries covers largely the same area as North Falls. There is also a possibility that both projects could be constructed at around the same time, therefore, cumulative effects may occur. | | | |
| Norwich to Tilbury EN020027 | Pre-application | 2027-2031 | Project area directly overlaps with North Falls onshore project area. | Low | Yes | The proposed substation area for Norwich to Tilbury is in close proximity to North Falls proposed onshore substation works area; and the proposed new substation operational access road overlaps with the Bentley Road improvement works. Therefore, cumulative effects could occur. At the time of assessment, the information available regarding Norwich to Tilbury was limited by the maturity of the scheme at the point of assessment (i.e. the publication of the Norwich to Tilbury PEIR). However, the information available at this time was used to undertake a reasonable assessment of the potential cumulative effects of North Falls and Norwich to Tilbury. | | | |
| Bradwell B new nuclear power station EN010111 | Pre-application | Predicted in 9- 12 years | 21 | Low | Yes | The Stage One consultation document briefly describes likely breeding and non-breeding bird assemblages in the local area which include Important | | | |

| Project | Status | Construction Period | Closest Distance from the Onshore Project Area (km) | Confidence in Data | Included in CEA | Rationale |
|---|---|----------------------------|--|-----------------------|--------------------|---|
| | | | | | | Ornithological Features (IOFs) associated with North Falls. As this project is also located in Essex, cumulative effects may occur. |
| Chapter 25 Onshor | e Archaeology and Cult | ural Heritage ¹ | | | | |
| National Infrastruct | ure Planning | | | | | |
| Five Estuaries Offshore Wind Farm EN010115 | UndergoingWaiting for DCO Examinationdecision | 2028-2030 | Five Estuaries project area directly overlaps with North Falls onshore project area. | High | Yes | The onshore project area for Five Estuaries covers largely the same area as North Falls. There is also a possibility that both projects could be constructed at around the same time, therefore, cumulative effects may occur, and may result in impacts of a direct and / or indirect nature upon non-designated heritage assets. There is also the possibility of cumulative effects on heritage setting should the construction periods overlap. |
| Norwich to Tilbury EN020027 | Pre-application | 2027-2031 | Project area directly overlaps with North Falls onshore project area. | High | Yes | The proposed substation area for Norwich to Tilbury is in close proximity to North Falls proposed onshore substation works area. Therefore, cumulative effects could occur, and may result in impacts of a direct and / or indirect nature upon non-designated heritage assets. There is also the possibility of cumulative effects on heritage setting should the construction periods overlap. |

¹ Please refer to Table 1.4 for a summary of offshore projects considered in the CEA in relation to impacts to the setting of onshore heritage assets.

| Project | Status | Construction Period | Closest Distance from the Onshore Project Area (km) | Confidence in Data | Included in CEA | Rationale | | | |
|--|---|----------------------------|--|-----------------------|--------------------|---|--|--|--|
| Tendring District Co | ouncil | | | | | | | | |
| Land adjacent to Lawford Grid Substation Ardleigh Road Little Bromley Essex CO11 2QB | Approved | Information unavailable | 0.3 | Low | Yes | The proposed battery energy storage scheme is located in close proximity to the onshore substation works area for North Falls. If the project construction overlaps with the construction of the North Falls substation, cumulative effects on heritage setting could occur depending on the eventual North Falls onshore substation location and is therefore considered within the CEA. The potential for direct and indirect physical cumulative effects on heritage assets is unlikely and are scoped out of further assessment. At the time of assessment, the information available regarding Norwich to Tilbury was limited by the maturity of the scheme at the point of assessment (i.e. the publication of the Norwich to Tilbury PEIR). However, the information available at this time was used to undertake a reasonable assessment of the potential cumulative effects of North Falls and Norwich to Tilbury. | | | |
| Chapter 26 Noise ar | nd Vibration | | | | | | | | |
| National Infrastruct | National Infrastructure Planning | | | | | | | | |
| Five Estuaries Offshore Wind Farm EN010115 | UndergoingWaiting for DCO Examinationdecision | 2028-2030 | Five Estuaries project area directly overlaps with North Falls onshore project area. | High | Yes | The onshore project area for Five Estuaries covers largely the same area as North Falls. There is also a possibility that both projects could be constructed at around the same time, | | | |

| Project | Status | Construction Period | Closest Distance from the Onshore Project Area (km) | Confidence in Data | Included in CEA | Rationale |
|---|-----------------|----------------------------|---|-----------------------|--------------------|--|
| | | | | | | therefore, cumulative effects may occur. |
| Norwich to Tilbury EN020027 | Pre-application | 2027-2031 | Project area directly overlaps with North Falls onshore project area. | Low | Yes | The proposed substation area for Norwich to Tilbury is in close proximity to North Falls proposed onshore substation works area; and the proposed new substation operational access road overlaps with the Bentley Road improvement works. Therefore, cumulative effects could occur. At the time of assessment, the information available regarding Norwich to Tilbury was limited by the maturity of the scheme at the point of assessment (i.e. the publication of the Norwich to Tilbury PEIR). However, the information available at this time was used to undertake a reasonable assessment of the potential cumulative effects of North Falls and Norwich to Tilbury. |
| Tendring District C | ouncil | | | | | |
| Land adjacent to Lawford Grid Substation Ardleigh Road Little Bromley Essex CO11 2QB 21/02070/FUL | Approved | Information unavailable | 0.3 | High | Yes | As detailed in ES Chapter 27 Traffic and Transport [APP-041], no cumulative construction traffic effects are anticipated for this project. The proposed battery energy storage scheme (BESS) is located in close proximity to the onshore substation works area for North Falls. If the project construction overlaps with the construction of the North Falls substation, cumulative noise effects |

| Project | Status | Construction Period | Closest Distance from the Onshore Project Area (km) | Confidence in Data | Included in CEA | Rationale |
|---|---|-------------------------|--|-----------------------|--------------------|--|
| | | | | | | could occur, depending on the eventual North Falls onshore substation location. Depending on the eventual North Falls onshore substation location, cumulative operational noise effects could also occur. |
| Chapter 27 Traffic a | and Transport | | | | | |
| National Infrastruct | ure Planning | | | | | |
| Five Estuaries Offshore Wind Farm EN010115 | UndergoingWaiting for DCO Examinationdecision | 2028-2030 | Five Estuaries project area directly overlaps with North Falls onshore project area. | High | Yes | The onshore project area for Five Estuaries covers largely the same area as North Falls. There is also a possibility that both projects could be constructed at the same time, therefore, cumulative effects could occur. |
| Norwich to Tilbury EN020027 | Pre-application | 2027-2031 | Project area directly overlaps with North Falls onshore project area. | Medium | Yes | The proposed substation area for Norwich to Tilbury is in close proximity to North Falls proposed onshore substation works area; and discussions with the scheme's promoters (National Grid) have identified that construction would share the same access route as North Falls from the A120 along Bentley Road and the temporary haul road to the new substation. Therefore, cumulative effects could occur. |
| Tendring District C | ouncil | | | | | |
| Land to The South of Thorpe | Approved | Information unavailable | 10 | High | Yes | A Transport Assessment (TA) is provided in support of this scheme. A review of these documents identifies a |

| Project | Status | Construction Period | Closest Distance from the Onshore Project Area (km) | Confidence in Data | Included in CEA | Rationale |
|--|-------------------|--|---|-----------------------|--------------------|---|
| Road Weeley Essex CO16 9AJ 19/00524/OUT | | | | | | potential temporal overlap and spatial and overlap between the scheme's and North Falls' traffic and transport study areas. Therefore, it is assessed that there is the potential for cumulative effects to occur. |
| Bathside Bay Stour Road Harwich Essex CO12 3HF23/01594/FUL | Awaiting decision | 2026-2028 (For Green Energy Hub) | 18 | High | Yes | A TA and ES traffic and transport chapter is provided in support of this scheme. A review of these documents identifies a potential temporal overlap and spatial overlap between the scheme's and North Falls; traffic and Transport study areas. Therefore, it is assessed that there is the potential for cumulative effects to occur. |
| Land South West of Horsley Cross Roundabout Clacton Road Horsley Cross Essex CO11 2NZ 13/00745/OUT | Operational | Information unavailable | 5 | High | Yes | The project was scoped into the cumulative assessment for traffic and transport noting that there is a spatial overlap of the respective study areas and that the application for the scheme is supported by a Transport Assessment (suggesting a thorough assessments of the transport implications of development were required) and therefore the potential for cumulative effects were noted. |

| | included in the CEA for | | | | | | | |
|--|--------------------------|------------------------|---|--|--|-----------------------|--------------------|--|
| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
| Chapter 28 Hum | nan Health | | | | | | | |
| National Infrast | ructure Planning | | | | T | 1 | | T |
| Five Estuaries Offshore Wind Farm EN010115 | Waiting for DCO decision | 2028-2030 | 0 (array area) | O (offshore cable corridor) | Five Estuaries project area directly overlaps with North Falls onshore project area. | <u>High</u> | Yes | There may be spatial and temporal overlaps during construction, therefore some cumulative effects on determinants of health (i.e. noise, air quality, ground/water contamination, physical activity, journey times/reduced access and employment) may occur. |
| Norwich to Tilbury EN020027 | Pre-application | <u>2027-2031</u> | <u>N/A</u> | N/A | Project area directly overlaps with North Falls onshore project area. | Low | Yes | The proposed substation area for Norwich to Tilbury is in close proximity to North Falls proposed onshore substation works area; and the proposed new substation operational access road overlaps with the Bentley Road |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|-------------------------------------|---|---|---|--|---|-----------------------|--|--|
| | | | | | | | | improvement works. Therefore, cumulative effects could occur. At the time of assessment, the information available regarding Norwich to Tilbury was limited by the maturity of the scheme at the point of assessment (i.e. the publication of the Norwich to Tilbury PEIR). However, the information available at this time was used to undertake a reasonable assessment of the potential cumulative effects of North Falls and Norwich to Tilbury. |
| Longfield Solar Farm EN010118 | Approved (Undergoing precommencement surveys and landscaping works) | 2024-2026 | N/A | N/A | 35.3 | <u>High</u> | Yes (for regional populations; operational phase only) | These projects could have temporal overlap during operation and could potentially affect the |
| Thurrock Flexible | Approved (DCO issued in 2022) | 2 year period – assumed to be 2021 -2023 in the | N/A | N/A | 65.2 | <u>High</u> | Yes (for regional populations; | same regional population, therefore some cumulative |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|--|-----------------|--|---|--|---|-----------------------|------------------------|--|
| Generation Plant EN010092 | | planning submission but this has been delayed. | | | | | operational phase only | effects on determinants of health (i.e. employment) may occur at the regional population level. |
| Tendring District Battery energy storage scheme (BESS) on land adjacent to Lawford Grid Substation, Ardleigh Road, Little Bromley, Essex, CO11 2QB 21/02070/FUL | Approved (full) | Information unavailable | N/A | N/A | 0.3 | N/A | <u>Yes</u> | The proposed BESS would be located in close proximity to the proposed onshore substation for North Falls, therefore some cumulative effects on determinants of health (i.e. operational noise) may occur. |
| Land to The South of Thorpe Road Weeley Essex CO16 9AJ 19/00524/OUT | Approved | Information unavailable | N/A | N/A | 10 | <u>High</u> | Yes | A Transport Assessment is provided in support of this scheme. A review of these documents identifies a potential temporal overlap and spatial and overlap between the scheme's and North Falls' traffic and transport study areas. Therefore, it |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|---|--------------------|-------------------------------------|---|--|---|-----------------------|--------------------|--|
| | | | | | | | | is assessed that there is the potential for cumulative effects to occur. |
| Bathside Bay Stour Road Harwich Essex CO12 3HF 23/01594/FUL | Awaiting decision | 2026-2028 (For Green Energy Hub) | N/A | N/A | 18 | High | Yes | A Transport Assessment and ES traffic and transport chapter is provided in support of this scheme. A review of these documents identifies a potential temporal overlap and spatial and overlap between the scheme's and North Falls' traffic and transport study areas. Therefore, it is assessed that there is the potential for cumulative effects to occur. |
| Land South West of Horsley Cross Roundabout Clacton Road Horsley Cross Essex CO11 2NZ | <u>Operational</u> | Information unavailable | N/A | N/A | <u>5</u> | <u>High</u> | Yes | The project was scoped into the cumulative assessment for traffic and transport noting that there is a spatial overlap of the respective study areas and that the |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|---|-------------------------------|------------------------|---|--|---|-----------------------|--------------------|---|
| 13/00745/OUT | | | | | | | | application for the scheme is supported by a Transport Assessment (suggesting a thorough assessments of the transport implications of development were required) and therefore the potential for cumulative effects were noted. |
| Other locations | | | | | | | | |
| Bramford to Twinstead Overhead Line | Consented | 2024-2028 | N/A | N/A | 14 | <u>High</u> | Yes | The Bramford to Twinstead Overhead Line may overlap with the study area used in the assessment of human health as set out in Section 28.3.1 of Chapter 28 Human Health [APP- 042]. |
| Sizewell C Project | Approved (DCO issued in 2022) | 2022-2034 | N/A | N/A | 49 | <u>High</u> | Yes | The Sizewell C Nuclear Power Station will be located in East |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|-----------------------------------|--------------------------|------------------------|---|--|--|-----------------------|--------------------|--|
| | | | | | | | | Suffolk, and some cumulative effects on determinants of health (i.e. construction and development employment effects) may occur. |
| Chapter 29 Seas | scape Landscape and \ | /isual Impact Assessm | <u>nent</u> | | | | | |
| East Anglia Two | Consented | Mid 2020s | 31.5 (array area and offshore cable corridor) | 37.6 (array area) | 45.6 (offshore cable corridor) | N/A | Yes | For the Offshore Above-sea Development, the cumulative assessment focuses |
| East Anglia One North | Consented | Mid 2020s | 45.1 (offshore cable corridor) | 32.5 (offshore cable corridor) | 45.6 (offshore cable corridor) | N/A | Yes | on offshore wind farms within the SLVIA study area (see Section 29.4.4 of Chapter 29 |
| Five Estuaries Offshore Wind Farm | Waiting for DCO decision | 2028-2030 | <u>0 (array</u> <u>area)</u> | 0 (offshore cable corridor) | Five Estuaries project area directly overlaps with North Falls onshore project area. | N/A | Yes | Seascape Landscape and Visual Impact Assessment [APP- 043]). Consented offshore wind farms, and offshore wind farms currently in the NSIP planning system, are considered as part of the assessment of |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|--|--------------------------|------------------------|---|--|--|-----------------------|--------------------|--|
| | | | | | | | | potential future cumulative effects. |
| Chapter 30 Lanc | dscape and Visual Impa | act Assessment | | | | | | |
| National Infrastr | ucture Planning | | | | | | | |
| Five Estuaries Offshore Wind Farm EN010115 | Waiting for DCO decision | 2028-2030 | N/A | N/A | Five Estuaries project area directly overlaps with North Falls onshore project area. | <u>High</u> | Yes | The onshore project area for Five Estuaries Offshore Wind Farm covers largely the same area as North Falls. There is also a possibility that both projects could be constructed at around the same time, therefore, likely significant cumulative effects may occur. |
| Norwich to Tilbury EN020027 Tendring District | Pre-application | 2027-2031 | N/A | N/A | Scoping area directly overlaps with North Falls onshore project area. | Medium | Yes | The proposed substation area for Norwich to Tilbury is in close proximity to North Falls onshore substation. Therefore, likely significant cumulative effects may occur. |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|--|-------------------------------|----------------------------|---|--|---|-----------------------|--------------------|--|
| Land adjacent to Lawford Grid Substation Ardleigh Road Little Bromley Essex CO11 2QB | Approved | Information unavailable | N/A | N/A | 0.3 | Medium | Yes | Included. Within 2km LVIA study area, and likely significant cumulative effects may occur. |
| Chapter 31 Soci | o-economics | | | | | | | |
| Offshore wind fa | arms | T | | T | | | | I |
| East Anglia TWO Offshore Wind Farm EN010078 | Approved (DCO issued in 2022) | Mid 2020s | 31.5 (array area and offshore cable corridor) | 36.7 (array area) | 45.6 (offshore cable corridor) | <u>High</u> | Yes | The East Anglia TWO Offshore Wind Farm's impact area is likely to overlap with the assessment's Suffolk study area on a number of receptors, and construction periods could overlap. |
| East Anglia ONE North Offshore Wind Farm EN010077 | Approved (DCO issued in 2022) | Mid 2020s | 45.1 (offshore cable corridor) | 32.5 (offshore cable corridor) | 45.6 (offshore cable corridor) | High | Yes | The East Anglia ONE North Offshore Wind Farm's impact area is likely to overlap with the assessment's Suffolk study area on a number of receptors. |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|--|--------------------------|-------------------------------------|---|--|--|-----------------------|--------------------|---|
| East Anglia THREE Offshore Wind Farm EN010056 | Construction phase | Construction commenced in 2022 | 31.8 (offshore cable corridor) | 8 (offshore cable corridor) | 21 (offshore cable corridor) | <u>High</u> | Yes | Whilst construction is assumed to be completed before installation and commissioning of North Falls has begun, the East Anglia THREE Offshore Wind Farm is likely to interact with some of the receptors identified during the operational phase. |
| Five Estuaries Offshore Wind Farm EN010115 | Waiting for DCO decision | 2028-2030 | 0 (array area) | 0 (offshore cable corridor) | Five Estuaries project area directly overlaps with North Falls onshore project area. | <u>High</u> | Yes | The onshore project area for Five Estuaries covers largely the same area as North Falls. There is also a possibility that both projects are constructed at the same time. |
| Proposed interconduction Norwich to Tilbury EN020027 | onnectors and other en | nergy transmission inf 2027-2031 | rastructure N/A | N/A | Project area directly overlaps with North Falls onshore | Low | Yes | The latest proposals include building a new 400,000 volts (400 kV) electricity overhead transmission line, |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|----------------|---------------|------------------------|---|--|---|-----------------------|--------------------|--|
| | | | | | project area. | | | work at existing substations and building a new substation to connect new proposed offshore wind farms to the electricity transmission network. The proposed substation area for Norwich to Tilbury is in close proximity to North Falls' proposed onshore substation works area. Therefore, cumulative effects on socio-economics could occur. At the time of assessment, the information available regarding Norwich to Tilbury was limited by the maturity of the scheme at the point of assessment (i.e. the publication of the Norwich to Tilbury PEIR). However, the |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|---|-------------------------------|------------------------|---|--|---|-----------------------|--------------------|--|
| | | | | | | | | information available at this time was used to undertake a reasonable assessment of the potential cumulative effects of North Falls and Norwich to Tilbury. |
| Other onshore d | levelopments | | | | | | | |
| Sizewell C Project | Approved (DCO issued in 2022) | 2022-2034 | N/A | N/A | 49 | <u>High</u> | Yes | Sizewell C Nuclear Power Station will be located in Suffolk. Therefore, it may interact with some receptors, particularly effects on employment, GVA and demographic change. |
| Bramford to Twinstead Overhead Line | Consented | 2024-2028 | N/A | N/A | 14 | <u>High</u> | Yes | The Bramford to Twinstead Overhead Line may overlap with the study area used in the assessment of the potential effects of North Falls on socio- economic receptors. |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|------------------------|---|--|---|--|---|-----------------------|------------------------------|--|
| Longfield Solar Farm | Approved (Undergoing pre- commencement surveys and landscaping works) | 2024-2026 | N/A | N/A | <u>35</u> | <u>High</u> | Yes (operational phase only) | The Longfield Solar Farm is located in Chelmsford, Essex and therefore the impact area is likely to overlap with the Essex study area for the assessment of the potential effects of North Falls on socio-economic receptors. However, the construction phase is unlikely to overlap with the installation and commissioning activity of North Falls and therefore only effects during the operational phase are scoped in. |
| Progress Power Station | Approved (DCO issued 2015) | Construction is expected to last approximately 24 months and the power station is due to the enter commercial operation by October 2024. | N/A | N/A | <u>46</u> | Medium | Yes (operational phase only) | The Power progress station is situated at Eye Airfield Industrial Estate, Mid Suffolk. Commercial operation is expected to begin within October 2024 and as such it may |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|------------------------------------|---------------------------------|--|---|--|---|-----------------------|------------------------------|--|
| | | | | | | | | interact with some receptors identified during the operational phase. |
| Sunnica Energy Farm | Approved (DCO issued July 2024) | Original timeline was for construction to take place between 2023-2025. However this has been delayed. It is assumed that the Project is still likely to have a 2 year construction period if approved and built out | N/A | N/A | <u>55</u> | <u>High</u> | Yes (operational phase only) | Sunnica Energy Farm's construction phase is not expected to coincide with the construction phase of North Falls. However, as the Energy farm is located in Suffolk its operational phase will overlap with North Falls and likely effect a number of receptors. |
| Thurrock Flexible Generation Plant | Approved (DCO issued in 2022) | 2-year period – assumed to be 2021 -2023 in the planning submission but this has been delayed. | N/A | N/A | 66 | High | Yes (operational phase only) | The Thurrock Flexible Generation Plant is located in Thurrock, Essex. Therefore, the impact area is likely to overlap with the Essex study area for the assessment of the potential effects of North Falls on socio-economic receptors. However, the construction of |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|--|---|------------------------|---|--|--|-----------------------|--------------------|--|
| | | | | | | | | this project is likely to be completed before the installation and commissioning activity of North Falls begins and therefore the Project is scoped out of the construction phase effects. |
| | ism and Recreation ucture Planning – OWI | | | | | | | |
| Five Estuaries Offshore Wind Farm EN010115 | Waiting for DCO decision | 2028-2030 | 0 (array area) | 0 (offshore cable corridor) | Five Estuaries project area directly overlaps with North Falls onshore project area. | <u>High</u> | Yes | The onshore project area for Five Estuaries covers largely the same area as North Falls, and both array areas may be visible from shore. There is also a possibility that both projects could be constructed at around the same time. Therefore, cumulative effects on marine, coastal, and onshore tourism and recreational assets could occur. |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|--|-------------------------------------|--------------------------------------|---|--|---|-----------------------|---|---|
| East Anglia TWO Offshore Wind Farm EN010078 | Approved (DCO issued in 2022) | Mid 2020s | 31.5 (array area and offshore cable corridor) | 36.7 (array area) | 45.6 (offshore cable corridor) | <u>High</u> | Yes, for long term visual effects from offshore infrastructure and impact on reduction in availability of accommodation only. | The onshore infrastructure for this project is not in close proximity to North Falls' onshore project area. However, cumulative visual effects on coastal and marine tourism and recreational assets could occur. |
| East Anglia ONE North Offshore Wind Farm EN010077 | Approved (DCO issued in 2022) | Mid 2020s | 45.1 (offshore cable corridor) | 32.5 (offshore cable corridor) | 45.6 (offshore cable corridor) | <u>High</u> | Yes, for long term visual effects from offshore infrastructure and impact on reduction in availability of accommodation only. | The onshore infrastructure for this project is not in close proximity to North Falls' onshore project area. However, cumulative visual effects on coastal and marine tourism and recreational assets could occur. |
| National Infrastr Bramford to Twinstead Overhead Line | ucture Planning – Othe Consented | er energy infrastructur 2024-2028 | e N/A | N/A | 14 | <u>High</u> | Yes | There are potential impacts on the tourism and recreation assets, visitor economy and visitor |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|---|-------------------------------|------------------------|---|--|--|-----------------------|--------------------|---|
| | | | | | | | | accommodation which could overlap. |
| Sizewell C Project | Approved (DCO issued in 2022) | 2023-2034 | N/A | N/A | <u>49</u> | <u>High</u> | Yes | Sizewell C Nuclear Power Station will be located in East Suffolk. Therefore, it has potential to interact with some receptors, particularly effects the visitor economy and on reduction in visitor accommodation due to the overlapping construction period. |
| Norwich to Tilbury (electric lines project) EN020027 | Pre-application | 2027-2031 | N/A | N/A | Scoping area directly overlaps with North Falls onshore project area. | Low | Yes | The proposed substation area for Norwich to Tilbury is in close proximity to North Falls' proposed onshore substation works area. Therefore, cumulative effects on onshore tourism and recreational assets could occur. At the time of assessment, the information available regarding Norwich to Tilbury |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|------------------------------|------------------|------------------------|---|--|---|-----------------------|--|--|
| | | | | | | | | was limited by the maturity of the scheme at the point of assessment (i.e. the publication of the Norwich to Tilbury PEIR). However, the information available at this time was used to undertake a reasonable assessment of the potential cumulative effects of North Falls and Norwich to Tilbury. |
| NeuConnect Interconnector | Pre-construction | 2022-2028 | 1 | N/A | <u>O</u> | <u>High</u> | Yes, for offshore construction effects only. | The NeuConnect Interconnector bisects the North Falls export cable corridor and interconnector cable corridor and there is potential for temporal overlap of cable installation activities. Therefore, as a result of vessel presence, cumulative effects on marine tourism and recreational assets |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|--|----------------------------|------------------------|---|--|---|-----------------------|--|---|
| | | | | | | | | may occur during the construction phase. As the project is a submarine power cable, there is no potential for cumulative visual effects during the operation phase. NeuConnect makes landfall in Kent and Germany. Thus, there is no potential for cumulative effects on coastal and onshore tourism and recreational assets. |
| South & East Anglia (SEA) Link EN020026 | Undergoing DCO Examination | 2026-2030 | 3 | N/A | <u>20</u> | Medium | Yes, for offshore construction effects only. | The emerging preferred and alternative routes for Sea Link intersects with North Falls' offshore cable corridor and there is potential for temporal overlap of cable installation activities. Therefore, cumulative effects on marine tourism and recreational assets. |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|----------------------------|-----------------|------------------------|---|--|---|-----------------------|--|--|
| | | | | | | | | due to the presence of vessels, may occur during the construction phase. As the project is a submarine power cable, there is no potential for cumulative visual effects during the operation phase. |
| EuroLink Interconnector | Pre-application | N/A | Cable route unknown | N/A | N/A | N/A | Yes, for offshore construction effects only. | Interconnector between UK and Netherlands. Consultation materials show the interconnector making landfall between Aldeburgh and Thorpeness. Thus, there is no potential for cumulative effects on coastal and onshore tourism and recreational assets. The potential for offshore cumulative effects will be subject to the interconnector cable |

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|--|--------------------------|------------------------|---|--|--|-----------------------|--------------------|--|
| | | | | | | | | route and installation programme. |
| Chapter 33 Clim | ate Change² | | | | | | | |
| National Infrastr | ucture Planning | | | | | | | |
| Five Estuaries Offshore Wind Farm EN010115 | Waiting for DCO decision | 2028-2030 | <u>0 (array</u> <u>area)</u> | 0 (offshore cable corridor) | Five Estuaries project area directly overlaps with North Falls onshore project area. | <u>High</u> | Yes | The onshore project area for Five Estuaries covers largely the same area as North Falls. There is also a possibility that both projects would be in construction and/or operation for the same time period, therefore, cumulative effects to surface water flooding may occur. |
| Norwich to Tilbury EN020027 | Pre-application | 2027-2031 | N/A | N/A | Project area directly overlaps with North Falls onshore | Low | <u>Yes</u> | The proposed substation area for Norwich to Tilbury is in close proximity to North Falls proposed onshore substation works area; and the |

² Chapter 33 Climate Change [APP-047] does not require a CEA; the projects scoped into the CEA relate to the Climate Change Risk Assessment. Please see Section 33.8 in Chapter 33 Climate Change [APP-047] for further detail.

| <u>Project</u> | <u>Status</u> | Construction period | Closest distance from the array area (km) | Closest distance from the offshore cable corridor (km) | Closest distance from the onshore project area (km) | Confidence in data | Included in CEA | <u>Rationale</u> |
|----------------|---------------|------------------------|---|--|---|-----------------------|--------------------|---|
| | | | | | project area. | | | proposed new substation operational access road overlaps with the Bentley Road improvement works. Therefore, cumulative effects to surface water flooding may occur. At the time of assessment, the information available regarding Norwich to Tilbury was limited by the maturity of the scheme at the point of assessment (i.e. the publication of the Norwich to Tilbury PEIR). However, the information available at this time was used to undertake a reasonable assessment of the potential cumulative effects of North Falls and Norwich to Tilbury. |

Table 1.4 Offshore Projects included in the CEA for Onshore Archaeology and Cultural Heritage

| Project | Status | Distance From Array | Number Of Wind Turbine Generator (WTG) | Blad Tip Height (m) | Included In CEA | Rationale |
|---------------------------|-------------|------------------------|--|------------------------|--------------------|---|
| Greater Gabbard | Operational | 0 to 20 km | 140 | 131 | Yes | This project has been identified in SLVIA visualisations from onshore heritage assets in which the assessment in Section 25.6.2 of ES Chapter 25 Onshore Archaeology and Cultural Heritage has identified will be subject to operational impacts to setting and therefore there is potential for cumulative effects to occur. |
| Galloper | Operational | 0 to 25 km | 56 | 180.5 | Yes | This project has been identified in SLVIA visualisations from onshore heritage assets in which the assessment in Section 25.6.2 of ES Chapter 25 Onshore Archaeology and Cultural Heritage has identified will be subject to operational impacts to setting and therefore there is potential for cumulative effects to occur. |
| London Array – Phase 1 | Operational | 20 to 32 km | 175 | 147 | Yes | This project has been identified in SLVIA visualisations from onshore heritage assets in which the assessment in Section 25.6.2 of ES Chapter 25 Onshore Archaeology and Cultural Heritage has identified will be subject to operational impacts to setting and therefore there is potential for cumulative effects to occur. |
| East Anglia Two | Consented | 35 to 55 km | 60 | 283 | Yes | This project has been identified in SLVIA visualisations from onshore heritage assets in which the assessment in Section 25.6.2 of ES Chapter 25 Onshore Archaeology and Cultural Heritage has identified will be subject to operational impacts to setting |

| Project | Status | Distance From Array | Number Of Wind Turbine Generator (WTG) | Blad Tip Height (m) | Included In CEA | Rationale |
|---|-------------|------------------------|--|------------------------|--------------------|---|
| | | | | | | and therefore there is potential for cumulative effects to occur. |
| Gunfleet Sands – Phase 1 and 2 | Operational | 39 to 46 km | 48 | 129 | Yes | This project has been identified in SLVIA visualisations from onshore heritage assets in which the assessment in Section 25.6.2 of ES Chapter 25 Onshore Archaeology and Cultural Heritage has identified will be subject to operational impacts to setting and therefore there is potential for cumulative effects to occur. |
| Gunfleet Sands – Phase 3 Demonstration Project | Operational | 46 km | 2 | 144 | Yes | This project has been identified in SLVIA visualisations from onshore heritage assets in which the assessment in Section 25.6.2 of ES Chapter 25 Onshore Archaeology and Cultural Heritage has identified will be subject to operational impacts to setting and therefore there is potential for cumulative effects to occur |

1.4 Cumulative Effect Assessment Summary

29.30. The following sections detail the cumulative impacts which were considered for each technical ES chapter, and their associated significance. Further detail on the impact assessments undertaken and any associated mitigation required can be found within each technical ES Chapter.

1.4.1 Chapter 8 Marine Geology Oceanography and Physical Processes [APP-022]

30.31. Table 1.5 provides a summary of the CEA outcomes for marine geology oceanography and physical processes. All projects with the potential for cumulative impacts identified for marine geology oceanography and physical processes are presented in Table 1.1.

Table 1.5 Potential cumulative impacts identified for Marine Geology Oceanography and Physical Processes

| IMPACT | Receptor | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|---|--|---|----------------------|------------------------|
| Construction and Op | eration | | | |
| Cumulative changes in seabed | Essex coast | There is a potential temporal overlap in | Negligible | N/A |
| level | Suffolk coast | installation activities with the | Negligible | N/A |
| | Margate and Long Sands Special Area of Conservation (SAC) | Projects screened in which could cause a cumulative effect with regards to changes in seabed level. | Negligible | N/A |
| | Annex I sandbanks | There is a potential temporal overlap in | Negligible | N/A |
| | Kentish Knock East (KKE) Marine Conservation Zone (MCZ) decommissioning activities with other projects screened in. | | Negligible | N/A |
| Cumulative changes in operational tidal | Annex I sandbanks | Impacts could occur and potentially | Negligible | N/A |
| currents | KKE MCZ | coalesce with those arising from other wind farms | Negligible | N/A |
| Cumulative changes in operational waves | ulative Annex I which could a cumulative ges in sandbanks with regards | | Negligible | N/A |
| operational waves | KKE MCZ | tidal currents, wave and sediment transport. | Negligible | N/A |
| Cumulative changes in | Essex coast | , , | Negligible | N/A |
| onangoo m | Suffolk coast | | Negligible | N/A |

| IMPACT | Receptor | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|--------------------------------|-------------------------------|-----------|----------------------|---------------------------|
| operational sediment transport | Margate and Long Sands SAC | | Negligible | N/A |
| | Annex I sandbanks | | Negligible | N/A |
| | KKE MCZ | | Negligible | N/A |

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.2 Chapter 9 Marine Water and Sediment Quality [APP-023]

31.32. Table 1.6 provides a summary of the CEA outcomes for marine water and sediment quality. All projects with the potential for cumulative impacts identified for marine water and sediment quality are presented in Table 1.1.

| IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|--|---|---------------------------------|-----------------------------|
| Construction | | | |
| Impact 1: Increases in suspended sediment associated with seabed preparation for the installation of foundations, and array cables | Effects will occur at isolated locations for a time-limited duration and are local in nature, however, due to nearby projects, cumulative effects must be assessed. | Not Significant (Negligible) | N/A |
| Impact 2: Increases in suspended sediment due to drill arisings for installation of piled foundations for wind turbines and OSPs/OCP | - dssesseu. | Not Significant (Negligible) | N/A |
| Impact 3: Increases in suspended sediment associated with installation of offshore export cables | | Not Significant (Minor) | N/A |
| Operation | | | |
| Impacts will be highly local is no potential for cumulati | ised around the maintenance ve effects. | e activities, short-term and in | termittent, therefore there |
| Decommissioning | | | |
| Impact 4: Increases in suspended sediment associated with removal of foundations and array cables | Effects will occur at isolated locations for a time-limited duration and are local in nature, however, due to nearby projects, cumulative | Not Significant (Negligible) | N/A |
| Impact 5: Increases in suspended sediment associated with removal of the export cables | effects must be assessed. | Not Significant (Minor) | N/A |

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.3 Chapter 10 Benthic and Intertidal Ecology [APP-024]

32.33. Table 1.7 provides a summary of the CEA outcomes for benthic and intertidal ecology. All projects with the potential for cumulative impacts identified for benthic and intertidal ecology are presented in Table 1.1.

Table 1.7 Potential cumulative impacts identified for Benthic and Intertidal Ecology

| IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|--|--|----------------------|---------------------------|
| CONSTRUCTION, OPERA | ATION AND DECOMMISSIO | NING | |
| Impact 1: Temporary physical disturbance and increased suspended sediment concentrations | Increases in SSC are expected to be localised at the point of discharge and short-term. The small quantities of fine sediment may be transported further; however, it will be widely and rapidly dispersed and not increase the volume of sediment already present in the benthos. The elevation of SSC is expected to be lower than concentrations that would develop in the water column during storm conditions. However, due to nearby offshore wind farms, cumulative effects are likely. | Minor | N/A |
| Impact 2: Loss of habitat during construction, operation and decommissioning | Additive habitat loss across the region. Other developments in the region have the potential to have cumulative habitat loss impacts | Minor | N/A |
| Impact 3: Colonisation of introduced substrate, including non-native species | It is likely that benthic organisms will successfully colonise introduced infrastructure. Biosecurity measures will be used to prevent the introduction of INNS. The risk of introduction to the southern North Sea is not considered to be significantly increased as a result of the Project. However, due to the potential for larvae to disperse over distances greater than | Minor | N/A |

| IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* | | |
|---|---|----------------------|---------------------------|--|--|
| CONSTRUCTION, OPERATION AND DECOMMISSIONING | | | | | |
| | one hundred kilometres (Álvarez-Noriega et al., 2020), this impact Is likely. | | | | |
| Impact 4: Interaction of (electromagnetic fields) EMF | EMF will be highly localised around the offshore cable corridor and array cables. However, due to proximity with Five Estuaries export cables and interconnector cables, cumulative effects are likely. | Negligible | N/A | | |

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.4 Chapter 11 Fish and Shellfish Ecology [APP-025]

33.34. Table 1.8 provides a summary of the CEA outcomes for fish and shellfish ecology. All projects with the potential for cumulative impacts identified for fish and shellfish ecology are presented in Table 1.1.

Table 1.8 Potential cumulative impacts identified for Fish and Shellfish Ecology

| IMPACT | RECEPTOR | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|---|--|--|----------------------|------------------------|
| Construction | | | | |
| Cumulative impact 1: Physical | Fish in general | Effects will occur at isolated locations | Negligible | N/A |
| disturbance and temporary habitat | Sandeels | for a time-limited duration and are local in nature. | Minor | N/A |
| loss during construction | Herring (Downs and Blackwater) | Given the presence of nearby offshore wind | Minor | N/A |
| | Thornback ray | farms, however, cumulative effects | Minor | N/A |
| | Oysters / cockles | must be assessed. | Minor | N/A |
| | Shellfish in general | | Minor | N/A |
| Cumulative impact 2: Increased SSCs and sediment redeposition during construction | Fish and shellfish in general | Increases in SSC are expected to be localised at the point of discharge and short-term. The small quantities of fine sediment may be transported further; however, it will be widely and rapidly dispersed and not increase the volume of sediment already present in the benthos. The elevation of SSC is expected to be lower than concentrations that would develop in the water column during storm conditions. However, due to nearby offshore wind farms, cumulative effects must be assessed. | Negligible | N/A |
| | Sandeels | | Minor | N/A |
| | Herring (Downs and Blackwater) | | Minor | N/A |
| | Other species with spawning grounds in the offshore project area | | Negligible | N/A |
| | Oysters / cockles | | Minor | N/A |

| IMPACT | RECEPTOR | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|---|--|--|------------------------|---------------------------|
| | Shellfish in general | | Negligible | N/A |
| Cumulative impact 3: Underwater noise from piling for | Dover sole, plaice, lemon sole and mackerel | There is potential for cumulative effects from underwater noise associated with offshore wind farm | Negligible | N/A |
| foundation installation during | Sandeels | | Minor | N/A |
| construction | Bass | activities. | Negligible | N/A |
| | Cod and sprat | | Minor | N/A |
| | Downs herring | | Minor | N/A |
| | Blackwater herring | | Minor | N/A |
| | Elasmobranchs | | Negligible | N/A |
| | Diadromous species (Salmon and sea trout) | | Negligible | N/A |
| | Diadromous species (Allis and Twaite shad and European eel) | | Minor | N/A |
| Cumulative impact 4: Underwater noise from other construction activities during construction | As previously identified Cumulative impact 3 | | Negligible to Minor | N/A |
| Cumulative impact 5: Underwater noise from UXO clearance during construction | As previously identified Cumulative impact 3 | | Negligible to Minor | N/A |
| Operation | | | | |
| Cumulative impact 6: Temporary habitat loss/ physical disturbance during operation | As previously identified Cumulative impact 1 | Effects will occur at isolated locations for a time-limited duration and are local in nature with a negligible impact magnitude. Given the presence of nearby offshore | Negligible to Minor | N/A |

| IMPACT | RECEPTOR | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|--|--|--|------------------------|------------------------|
| | | wind farms, however, cumulative effects must be assessed. | | |
| Cumulative impact 7: Long term habitat loss during operation | As previously identified Cumulative impact 1 | Additive habitat loss across the region. Other developments in the region have the potential to have cumulative habitat loss impacts. | Negligible to Minor | N/A |
| Cumulative impact 8: Increased SSCs and re-deposition during operation | As previously identified Cumulative impact 2 | Effects will occur at isolated locations for a time-limited duration and are local in nature with a negligible impact magnitude. However, due to nearby offshore wind farms, cumulative effects must be assessed | Negligible to Minor | N/A |
| Cumulative impact 9: | Fish species in general | EMF will be highly localised around the offshore cable corridor, array cables and platform interconnector cables. However, due to nearby offshore wind farms, cumulative effects must be | Negligible | N/A |
| Electromagnetic Fields (EMFs) during operation | Elasmobranchs | | Minor | N/A |
| | Lamprey | | Minor | N/A |
| | European eel | | Negligible | N/A |
| | Salmon and sea trout | assessed. | Negligible | N/A |
| | Shellfish | | Negligible | N/A |
| Decommissioning | | | | |
| Cumulative impact 10: Temporary habitat loss / physical disturbance during decommissioning | As previously identified Cumulative impact 1 | Effects will occur at isolated locations for a time-limited duration. Given the presence of nearby offshore wind farms, however, cumulative effects must be assessed. | Negligible to Minor | N/A |
| Cumulative impact 11: Underwater noise | As previously identified | There is potential for interactive effects from | Negligible to Minor | N/A |

| IMPACT | RECEPTOR | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|--|---------------------|--|----------------------|---------------------------|
| and vibration during decommissioning | Cumulative impact 3 | underwater noise associated with offshore wind farm decommissioning activities and projects within a representative 100km buffer of the North Falls array area are considered. | | |

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.5 Chapter 12 Marine Mammals [APP-026]

34.35. Table 1.9 provides a summary of the CEA outcomes for marine mammals. All projects with the potential for cumulative impacts identified for marine mammals are presented in Table 1.1.

Table 1.9 Potential cumulative impacts identified for Marine Mammals

| IMPACT | RECEPTOR | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION |
|--|----------------------------------|---|----------------------|--------------------------|
| Impact 1a: Cumulative disturbance due | Harbour porpoise and minke whale | Increased underwater associated with | Minor adverse | None required |
| to other offshore wind farm (OWF) piling at the same time as North Falls | Grey seal and harbour seal | North Falls could affect the level of disturbance for marine mammals | Minor adverse | |
| Impact 1b: Cumulative disturbance due to other OWFs | Harbour porpoise and minke whale | | Minor adverse | None required |
| constructing at the same time as North Falls | Grey seal and harbour seal | | Minor adverse | |
| Impact 1c: Cumulative disturbance due | Harbour porpoise | | Minor adverse | None required |
| to noisy activities (other than OWF) | Minke whale | | Minor adverse | |
| | Grey seal and harbour seal | | Minor adverse | |
| Impact 1: Cumulative disturbance effect | Harbour porpoise and minke whale | | Minor adverse | None required |
| due to all other noisy projects and activities | Grey seal and harbour seal | | Minor adverse | |
| Impact 2: Cumulative barrier effect with other | Harbour porpoise and minke whale | Increased underwater noise associated with | Minor adverse | None required |
| projects due to underwater noise | Grey seal and harbour seal | North Falls could increase the potential risk of barrier effects for marine mammals | Minor adverse | |
| Impact 3a: Disturbance due to vessels associated with | Harbour porpoise and minke whale | Increased vessel traffic associated with North Falls could affect the | Minor adverse | None required |
| operational OWFs | Grey seal and harbour seal | level of disturbance for marine mammals. | Minor adverse | |

| IMPACT | RECEPTOR | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|--|----------------------------------|--|-----------------------------|---|
| Impact 3b: Increase in cumulative | Harbour porpoise and grey seal | Increased vessel traffic associated with North Falls | Negligible | Vessel good practice measures to manage |
| collision risk | Minke whale | could affect the level of collision risk for marine mammals | Minor adverse | collision risk |
| | Harbour seal | | Minor adverse | |
| Impact 4: Cumulative disturbance at seal haul-out sites | Grey seal and harbour seal | Increased vessel traffic associated with North Falls could affect the level of disturbance for seals | Minor adverse | None required |
| Impact 5: Cumulative indirect effects to marine mammals | Harbour porpoise and minke whale | Potential effects on fish species could affect the prey resource for | Negligible to minor adverse | None required |
| through changes to prey resources | Grey seal and harbour seal | marine mammals | Negligible | None required |

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.6 Chapter 13 Offshore Ornithology [APP-027]

35.36. Table 1.10 provides a summary of the CEA outcomes for offshore ornithology. All projects with the potential for cumulative impacts identified for offshore ornithology are presented in Table 1.1.

Table 1.10 Potential cumulative impacts identified for Offshore Ornithology

| IMPACT | RECEPTOR | RATIONALE | CUMULATIVE EFFECT | Additional MITIGATION Measures Proposed* | | |
|---|--------------------|--|----------------------|--|--|--|
| Construction | | | | | | |
| Direct disturbance and displacement during construction of the export cable | Red-throated diver | On the advice of Natural England, the disturbance and displacement effects of the North Falls Array area during construction have been assessed as 50% of the predictions for operational displacement. Cumulative operational displacement effects for North Falls and other OWFs in the UK North Sea are assessed in Section 13.8.3.1 of Chapter 13 Offshore Ornithology [APP-027] for the offshore ornithology receptors screened in for displacement (gannet, guillemot, razorbill and red-throated diver). In each case the assessment has concluded no significant ecological effect of cumulative operational displacement. In the context of the conclusions of the operational displacement assessment, the same conclusion would apply if the construction effects of North Falls are estimated as 50% of operational displacement. Thus cumulative effects of disturbance and displacement in relation to the North Falls array area, and other OWFs, are screened out. However, as there is overlap between the offshore cable corridors for North Falls and Five Estuaries there is potential for cumulative disturbance to occur in this area during the construction phase, and | Minor adverse | None | | |

| IMPACT | RECEPTOR | RATIONALE | CUMULATIVE EFFECT | Additional MITIGATION Measures Proposed* |
|-------------------------------|-----------|--|----------------------|--|
| | | this impact has been screened in. | | |
| Operation | | | | |
| Displacement / barrier effect | Guillemot | There is a sufficient likelihood of a cumulative impact to justify a detailed, quantitative cumulative impact assessment. The cumulative assessment considers cumulative displacement / barrier effects on the seabird species screened in for the Project alone assessment (gannet, guillemot, and red-throated diver). Cumulative operational barrier effect for non-seabird migratory species is also screened in (although barrier effect for non-migratory seabirds was not screened in for the Project Alone assessment), This is based on Natural England's comments on North Falls Scoping Report. Natural England agreed that 'species would be likely to encounter the turbine array only once during a given migration journey if North Falls is situated within their flight corridor, meaning they could potentially encounter the site and hence any barrier effect up to twice per year' and that 'the energetic costs of such one-off avoidance events can be considered to be negligible for the North Falls project alone. However, we recommend that the impact of cumulative barrier effects [of OWFs] on migratory species is not scoped out of | Minor adverse | None |
| | Razorbill | | Minor adverse | None |

| IMPACT | RECEPTOR | RATIONALE | CUMULATIVE EFFECT | Additional MITIGATION Measures Proposed* |
|--|------------------------------|--|-----------------------------|--|
| | Red-throated diver | the assessment at this stage'. | Minor adverse | None |
| Collision risk | Gannet | There is a sufficient likelihood of a cumulative | Minor adverse | None |
| | Great black- backed gul | impact to justify a detailed, quantitative cumulative impact assessment. | Moderate adverse | None |
| | Kittiwake | | Moderate adverse | None |
| | Lesser black- backed gull | | Moderate adverse | None |
| Collision and displacement | Gannet | | Minor adverse | None |
| Barrier effect to migratory bird species | Migratory bird species | | Minor adverse to negligible | None |

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.7 Chapter 14 Commercial Fisheries [APP-028]

36.37. Table 1.11 provides a summary of the CEA outcomes for commercial fisheries. All projects with the potential for cumulative impacts identified for commercial fisheries are presented in Table 1.1.

Table 1.11 Potential cumulative impacts identified for Commercial Fisheries

| IMPACT | RECEPTOR | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|--|---|---|---|------------------------|
| Cumulative effect 1: Long- term loss or restricted access to traditional fishing ground | UK local inshore vessels | If the fishing grounds of a category of fishing vessels overlap the boundaries of more than one development | Minor (restricted to nearshore areas; static fishers) Minor (extended operational ranges) | N/A |
| | UK mobile towed gear vessels | measure there is potential for likely significant | Minor | N/A |
| | Belgian beam trawlers | cumulative effects. | Minor | N/A |
| | Belgian demersal otter trawlers and seine netters | | Minor | N/A |
| | Dutch beam trawlers | | Minor | N/A |
| | Dutch demersal otter trawlers and seine netters | If the fishing grounds of a category of fishing vessels overlap the boundaries of more than one development measure there is potential for likely significant | Minor | N/A |
| | French pelagic trawlers and seine netters | | Minor | N/A |
| | French bottom trawlers | | Negligible | N/A |
| Cumulative effect 2: Displacement of fishing activities into other areas | UK local inshore vessels | | Minor (restricted to nearshore areas; static fishers) Minor (extended operational ranges) | N/A |
| | Mobile towed gear vessels | | Minor | N/A |
| | Belgian beam trawlers | cumulative effects. | Minor | N/A |
| | Belgian demersal otter trawlers and seine netters | | Minor | N/A |
| | Dutch beam trawlers | | Minor | N/A |
| | Dutch demersal otter trawlers and seine netters | | Negligible | N/A |

| IMPACT | RECEPTOR | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|--|---|---|--|------------------------|
| | French pelagic trawlers and seine netters | | Minor | N/A |
| | French bottom trawlers | | Negligible | N/A |
| Cumulative effect 3: Increased steaming times to fishing grounds | All other commercial fishing vessels | If the fishing grounds of a category of fishing vessels overlap the boundaries of more than one development measure there is potential for likely significant cumulative effects. | It is considered that the magnitude of impact, sensitivity of the receptor and resulting significance of effect in respect of displacement would, at worst, be as identified in relation to loss of grounds or restricted access to fishing grounds. As such it is considered that the findings of the assessment with regards to the loss or restricted access to fishing grounds also apply in relation to displacement of fishing activity. | |
| Cumulative effect 4: Snagging risk / safety issues for fishing vessels | All commercial fishing vessels | If the fishing grounds of a category of fishing vessels overlap the boundaries of more than one development measure there is potential for likely significant cumulative effects. | Minor significance and tolerable | N/A |
| Cumulative effect 5: Impacts on commercial fishing as a | Pelagic herring fishery | Discussed in ES Chapter 11 Fish and Shellfish Ecology | Minor | N/A |
| result of impacts on commercially exploited species | All commercial fisheries | | Minor | N/A |

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.8 Chapter 15 Shipping and Navigation [APP-029]

37.38. Table 1.12 provides a summary of the CEA outcomes for shipping and navigation. All projects with the potential for cumulative impacts identified for shipping and navigation are presented in Table 1.1.

Table 1.12 Potential cumulative impacts identified for Shipping and Navigation

| IMPACT | RECEPTOR | RATIONALE | SIGNIFICANCE of Of EFFECT | Additional MITIGATION Measures Proposed* |
|--|-------------------------|--|--|--|
| Impact 1: Vessel to structure allision | Third party traffic | Additional surface piercing structures will increase allision risk. | Tolerable and as low as reasonably practicable (ALARP) | SEZ to maintain a distance of at least 1nm from all surface piercing infrastructure to the local IMO routeing measures unless otherwise agreed with the MCA. |
| Impact 2: Vessel displacement | Third party traffic | Additional surface piercing structures will increase cumulative displacement. | Broadly acceptable | None identified |
| Impact 3: Increased vessel to vessel collision risk (third party to third party) | Third party traffic | Additional surface piercing structures will increase displacement and reduce searoom which may lead to increased collision risk. | Tolerable and ALARP | SEZ to maintain a distance of at least 1nm from all surface piercing infrastructure to the local IMO routeing measures unless otherwise agreed with the MCA |
| Impact 4: Increased vessel to vessel collision risk (third party to project vessel) | Third party traffic | Additional vessels associated with other cumulative projects may lead to increased cumulative collision risk. | Tolerable and ALARP | None identified |
| Impact 5: Impact on vessels transiting to/from local ports in the area, including use of approach channels, port operations and pilotage | Ports and port users | Additional surface piercing structures, project activities and vessels may increase cumulative effect on port access. | Tolerable and ALARP | None identifiedThe Outline Navigation and Installation Plan (oNIP) (Document Reference 7.24) |

| IMPACT | RECEPTOR | RATIONALE | SIGNIFICANCE of Of EFFECT | Additional MITIGATION Measures Proposed* |
|---|------------------------------------|---|------------------------------|---|
| | | | | includes measures to reduce disruption to vessels transiting to/from local ports in the area, including use of approach channels, port operations and pilotage. Construction works amongst concurrent projects will not take place across the two deep water routes (Sunk and Trinity) into the London ports at the same time. Thus, one access route into the ports will always be kept undisturbed by the construction works. The access routes are being discussed in ongoing meetings with the ports and the tables in the oNIP will be updated at Deadline 6. |
| Impact 6: Interaction with subsea cables including cable protection | Third party traffic | Additional cables in the area may lead to cumulative effect on under keel clearance | Tolerable and ALARP | None identified |
| Impact 7: Reduction of emergency response capability due to increased incident rates and/or reduced access for SAR responders | Emergency Response Resources | Additional surface piercing structures, project activities and vessels may lead to increased incident rates on a cumulative basis or impact | Tolerable and ALARP | None identified |

| IMPACT | RECEPTOR | RATIONALE | SIGNIFICANCE of Of EFFECT | Additional MITIGATION Measures Proposed* |
|--------|----------|-----------------------------------|------------------------------|--|
| | | SAR access on a cumulative basis. | | |

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

- 1.4.9 Chapter 16 Offshore and Intertidal Archaeology and Cultural Heritage [APP-030]
- 38.39. Table 1.13 provides a summary of the CEA outcomes for offshore and intertidal archaeology and cultural heritage. All projects with the potential for cumulative impacts identified for offshore and intertidal archaeology and cultural heritage are presented in Table 1.1.

Table 1.13 Potential cumulative impacts identified for Intertidal Archaeology and Cultural Heritage

| IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|---|--|----------------------|---|
| Construction | | | |
| Direct (physical) impact to potential heritage assets | Although the effect of unavoidable impacts will be mitigated by agreed measures as part of the consenting process for each of the constructed and planned projects, the impacts will still have occurred and permanent damage or destruction will have taken place. The assessment of cumulative impacts, therefore, needs to consider the effect of multiple unavoidable impacts from multiple projects upon the archaeological resource. | Minor adverse | Further assessment of geophysical and geotechnical data |
| Indirect impact to heritage assets from changes to physical processes | As set out in ES Chapter 8: Marine Geology, Oceanography and Physical Processes [APP-022], although there is not a sufficient level of information known at this stage, there is a potential temporal overlap in installation activities for the NeuConnect Interconnector, which bisects the North Falls offshore cable corridor, and the construction of cables and foundations for North Falls. Depending on their construction programmes there is also a potential temporal overlap in construction of Five | No impact | N/A |

| IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|--|--|----------------------|---|
| | Estuaries and East Anglia TWO OWFs. | | |
| Operation | | | |
| Direct (physical) impact to potential heritage assets | There is potential for multiple unavoidable impacts associated with operations and maintenance activities (e.g. cable repairs and vessel anchors / jack up legs) during the operation phases of multiple projects. | Minor adverse | Further assessment of geophysical and geotechnical data |
| Indirect impact to heritage assets from changes to physical processes | As set out in ES Chapter 8 Marine Geology, Oceanography and Physical Processes [APP-022], impacts could potentially coalesce with those arising from other wind farms. | No impact | N/A |
| Decommissioning | | | |
| Direct (physical) impact to potential heritage assets | There is potential for multiple unavoidable impacts associated with decommissioning considered cumulatively with activities associated with other projects. | Minor adverse | Further assessment of geophysical and geotechnical data |

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.10 Chapter 17 Aviation and Radar [APP-031]

39.40. Table 1.14 provides a summary of the CEA outcomes for aviation and radar. All projects with the potential for cumulative impacts identified for aviation and radar are presented in Table 1.1.

Table 1.14 Potential cumulative impacts identified for Aviation and Radar

| IMPACT | RATIONALE | CUMULATIVE EFFECT | MITIGATION MEASURES |
|--|---|----------------------|---|
| Impact 1: WTGs causing permanent interference on civil and military radars. | Other wind farm developments could impact radars over a larger area. | Major (Significant) | Technical mitigation solution applied to impacted radars where significant effects are identified to be agreed with operators. The residual effect after mitigation is not significant. |
| Impact 2: Creation of an aviation obstacle environment. | WTGs associated with other developments create aviation obstacles, restricting the available airspace. | Not Significant | As outlined in Section 17.3.3 in Chapter 17 Aviation and Radar [APP-031]: Information, notifications and charting Marking and lighting Regulatory requirements |
| Impact 3: Increased air traffic in the area related to wind farm activities. | Air traffic activities associated with other developments have the potential to cumulatively increase the risk of aircraft collision | Not Significant | Managed by existing Air Traffic Service (ATS) infrastructure Pilot compliance with regulatory requirements |

1.4.11 Chapter 18 Infrastructure and Other Users [APP-032]

40.41. Table 1.15 provides a summary of the CEA outcomes for infrastructure and other users. All projects with the potential for cumulative impacts identified for infrastructure and other users are presented in Table 1.1.

Table 1.15 Potential cumulative impacts identified for Infrastructure and Other Users

| IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* | | | | |
|---|---|----------------------|---------------------------|--|--|--|--|
| Construction, Operation | Construction, Operation and Decommissioning | | | | | | |
| Potential interference with other OWFs | Plans and projects currently in planning have potential to have cumulative effects on existing OWFs | Minor | N/A | | | | |
| Physical impacts on subsea cables | Plans and projects currently in planning have potential to have cumulative effects on existing subsea cables. | Minor | N/A | | | | |
| Potential impacts on dredging | Plans and projects currently in planning have potential to have cumulative effects on dredging | Minor | N/A | | | | |
| Impacts on Ministry of Defence (MoD) activities | Plans and projects currently in planning have potential to have cumulative effects on MOD activities | Minor | N/A | | | | |

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.12 Chapter 19 Ground Conditions and Contamination [APP-033]

41.42. Table 1.16 provides a summary of the CEA outcomes for ground conditions and contamination. All projects with the potential for cumulative impacts identified for ground conditions and contamination are presented in Table 1.2.

Table 1.16 Potential cumulative impacts identified for Ground Conditions and Contamination

| IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION <u>*</u> | | |
|--|---|---|--|--|--|
| Construction | | | | | |
| Impact 1: Exposure of workforce, landowners, land users and neighbouring land users to contaminated soils and groundwater and associated health impacts | The residual effects to construction workers would be confined to the onshore project area. Effects on landowners, land users and neighbouring land users may be exacerbated by other projects. | Minor adverse, therefore not significant in EIA terms | No additional mitigation measures necessary. | | |
| Impact 2: Direct impacts on groundwater quality and groundwater resources | Residual effects on Secondary Aquifers may be exacerbated by other projects which are located within the same aquifer and / or SPZ. | Minor adverse, therefore not significant in EIA terms | No additional mitigation measures necessary. | | |
| Impact 3: Impacts on surface water quality and the ecological habitats they support from contamination | Residual effects on surface water and the ecological habitats they support may be exacerbated by other projects that are located within the same river catchment. | Minor adverse, therefore not significant in EIA terms | No additional mitigation measures necessary. | | |
| Impact 4: Sterilisation of future mineral resources | Residual effects on MSAs and MCAs may be exacerbated by other projects if located within the same safeguarding area. | Minor adverse, therefore not significant in EIA terms | No additional mitigation measures necessary. | | |
| Impact 5: Built environment | Residual effects on the built environment may be exacerbated by other projects if located near to the same structures. | Minor adverse, therefore not significant in EIA terms | No additional mitigation measures necessary. | | |
| Impact 6: Impacts on agricultural land | Residual effects on agricultural land may be exacerbated by other projects. | Minor adverse, therefore not significant in EIA terms | No additional mitigation measures necessary. | | |

| IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|---|---|---|--|
| Operation | | | |
| Impact 1: Exposure of workforce, landowners, land users and neighbouring land users to contaminated soils and groundwater and associated health impacts | The residual effects to maintenance workers would be confined to the onshore project area. Residual effects on landowners, land users and neighbouring land users may be exacerbated by other projects. | Minor adverse, therefore not significant in EIA terms | No additional mitigation measures necessary. |
| Impact 2: Impact on controlled waters (groundwater and surface waters) | Residual effects on Secondary Aquifers may be exacerbated by other projects which are located within the same aquifer and / or SPZ. | Minor adverse, therefore not significant in EIA terms | No additional mitigation measures necessary. |
| Impact 3: Sterilisation of future mineral resources | Residual effects on MSAs and MCAs may be exacerbated by other projects if they are located within the same safeguarding area. | Minor adverse, therefore not significant in EIA terms | No additional mitigation measures necessary. |
| Impact 4: Built environment | Residual effects on the built environment may be exacerbated by other projects if located near the same buildings. | Minor adverse, therefore not significant in EIA terms | No additional mitigation measures necessary. |
| Impact 5: Impacts on agricultural land | Residual effects on agricultural land may be exacerbated by other projects if located near the same parcel of agricultural land. | Minor adverse, therefore not significant in EIA terms | No additional mitigation measures necessary. |
| Decommissioning | | | |

Decommissioning strategies have not yet been finalised for North Falls, Five Estuaries or Norwich to Tilbury; however, the cumulative effects are expected to be the same as those of the initial construction phase

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.13 Chapter 20 Onshore Air Quality [APP-034]

42.43. Table 1.17 provides a summary of the CEA outcomes for onshore air quality. All projects with the potential for cumulative impacts identified for onshore air quality are presented in Table 1.2.

Table 1.17 Potential cumulative impacts identified for Air Quality

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|---|--|---|--|
| Construction | | | |
| Impact 1: Construction dust and fine PM | There is potential for cumulative construction dust impacts where projects occur within 700m of each other, as dust impacts are considered within a 350m buffer from each project, as detailed in Section 20.4.3.1 of Chapter 20 Onshore Air Quality [APP-034]. Therefore, two projects would need to be within 700m of each other for cumulative dust impacts to occur. | No significant cumulative effects are anticipated | No additional mitigation measures necessary. |
| Impact 2: NRMM emissions | There is potential for cumulative non-road mobile machinery (NRMM) emission impacts where projects overlap. | No significant cumulative effects are anticipated | No additional mitigation measures necessary. |
| Impact 3: Construction road vehicle emissions | Where the construction phase of North Falls overlaps with other projects, there is the potential for cumulative impacts associated with North Falls-generated traffic emissions on the local road network. | No significant cumulative effects are anticipated | No additional mitigation measures necessary. |

Operation

Operation impacts were scoped out of the assessment, therefore there would be no cumulative operational impacts.

Decommissioning

Decommissioning strategies have not yet been finalised for North Falls, Five Estuaries Offshore Wind Farm or Norwich to Tilbury; however, the cumulative effects are expected to be the same as those of the initial construction phase.

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.14 Chapter 21 Water Resources and Flood Risk [APP-035]

43.44. Table 1.18 provides a summary of the CEA outcomes for water resource and flood risk. All projects with the potential for cumulative impacts identified for water resource and flood risk are presented in Table 1.2.

Table 1.18 Potential cumulative impacts identified for Water Resources and Flood Risk

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|---|---|-------------------------------------|---------------------------|
| Construction | | | |
| Direct disturbance of surface water bodies | Impacts to surface water bodies could act cumulatively with other projects if these cause direct disturbance to the same water bodies, particularly if there is a temporal or spatial overlap. | Cumulative effects are not expected | N/A |
| Increased sediment supply | Other projects being constructed within the same catchments as the onshore project area may also cause an increase in sediment supply to the surface water drainage system, which could act cumulatively | Cumulative effects are not expected | N/A |
| Supply of contaminants to surface and groundwaters | Other projects being constructed within the same catchments as the onshore project area may act cumulatively to reduce surface and groundwater quality if they cause a supply of contaminants to be released into the surface water drainage system. | Cumulative effects are not expected | N/A |
| Changes to surface and groundwater flows and flood risk | Other projects being constructed within the same catchments as the onshore project area could also cause changes in surface flow patterns, compaction and an increase in impermeable area. This could act cumulatively to cause further changes to surface water runoff and flood risk. | Cumulative effects are not expected | N/A |

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|---|--|-------------------------------------|------------------------|
| Operation | | | |
| Supply of contaminants to surface and groundwaters | All new developments are likely to have operational or maintenance requirements which may require regular access by machinery. This will increase the likelihood of contaminants and fine sediment being released and acting cumulatively. However, operational activities associated with the Project will be largely confined to the onshore substation site (as routine cable maintenance will be non-intrusive) and as such could only result in cumulative impacts in the catchments which contain the onshore substation (Holland Brook and Tenpenny Brook). | Cumulative effects are not expected | N/A |
| Changes to surface and groundwater flows and flood risk | As a result of the limited spatial extent of permanent impermeable ground in the onshore project area, the effect is considered to be limited and highly localised and therefore unlikely to act cumulatively with other projects. However, the greater area of impermeable ground at the substation could result in cumulative impacts with other projects in the same catchments (Holland Brook, Tenpenny Brook). | Cumulative effects are not expected | N/A |

Decommissioning

Decommissioning strategies have not yet been finalised for North Falls, Five Estuaries or Norwich to Tilbury; however, the cumulative effects are expected to be the same as those of the initial construction phase

| * A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation | |
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1.4.15 Chapter 22 Land Use and Agriculture [APP-036]

44.45. Table 1.19 provides a summary of the CEA outcomes for land use and agriculture. All projects with the potential for cumulative impacts identified for land use and agriculture are presented in Table 1.2.

Table 1.19 Potential cumulative impacts identified for Land Use and Agriculture

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|---|--|--|--|
| Construction | | | |
| Cumulative effect 1: Potential for earthworks associated with construction to impact natural and artificial field drainage systems | Cumulative direct impacts arising from two or more projects are possible given the level of uncertainty regarding the presence and location of drainage systems. Impacts may occur to individual field drains in any area of overlap or those with an extent which intersects two or more proposed development boundaries (where groundworks are anticipated). | Minor adverse, therefore, not significant in EIA terms (same as North Falls alone assessment). | N/A |
| Cumulative effect 2: Temporary loss of agricultural land during construction | Cumulative direct impacts arising from two or more projects are possible. Impacts may occur where project boundaries overlap spatially or temporally on the same landowner/occupier's land. Such impacts have the potential to affect local productivity (e.g. loss of earnings from more than one project taking the same parcels of land out of use). | Major adverse, therefore, significant in EIA terms (same as North Falls alone assessment). | No additional mitigation is proposed over and above that set out as embedded mitigation. |
| Cumulative effect 3: Potential for soils to become compacted and for soil structure to deteriorate during construction works | Cumulative direct impacts arising from two or more projects are possible. Impacts may occur where project boundaries overlap spatially or temporally on the same landowner/occupier's land. Such impacts have the potential to affect local productivity (e.g. loss of earnings from more than one project taking the same | Minor adverse, therefore, not significant in EIA terms (same as North Falls alone assessment). | N/A |

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|---|---|--|--|
| | parcels of land out of use). | | |
| Cumulative effect 4: Excavation, storage and reinstatement during construction exposes the soils and potentially leads to soil erosion | Cumulative direct impacts arising from two or more projects are possible. Impacts may occur where project boundaries overlap spatially or temporally on the same landowner/occupier's land. Such impacts have the potential to affect local productivity (e.g. loss of earnings from more than one project taking the same parcels of land out of use). | Negligible, therefore, not significant in EIA terms (same as North Falls alone assessment). | N/A |
| Cumulative effect 5: During construction there would be potential ecological and financial impacts on agri- environment schemes | Cumulative direct effects arising from two or more projects are possible. Impacts may occur where project boundaries overlap spatially or temporally on the same landowner/occupier's land. Such impacts have the potential to affect land under agrienvironment schemes (e.g. loss of earnings from agri-environment schemes from more than one project taking the same parcels of land out of use). | Minor adverse, therefore, significant in EIA terms (same as North Falls alone assessment). | No additional mitigation is proposed over and above that set out as embedded mitigation. |
| Operation | | | |
| Cumulative effect 1: Permanent loss of agricultural land during operation | Cumulative effects may occur at a county scale where impacts to productivity affect the wider agriculture industry. | Major adverse, therefore, significant in EIA terms (same as North Falls alone assessment). | No additional mitigation is proposed over and above that set out as embedded mitigation. |
| Decommissioning | | | |

Decommissioning strategies have not yet been finalised for North Falls, Five Estuaries or Norwich to Tilbury; however, the cumulative effects are expected to be the same as those of the initial construction phase

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.16 Chapter 23 Onshore Ecology [APP-037]

45.46. Table 1.20 provides a summary of the CEA outcomes for onshore ecology. All projects with the potential for cumulative impacts identified for onshore ecology are presented in Table 1.2.

Table 1.20 Potential cumulative impacts identified for Onshore Ecology

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|--|--|--|---------------------------|
| Construction | | | |
| Cumulative effect 1: Impacts on designated statutory and non- statutory sites | No cumulative effects are anticipated on designated sites. Direct impacts on Holland Haven Marshes SSSI/LNR are avoided through the use of HDD by both Five Estuaries and North Falls. Any potential indirect cumulative effects on other designated sites outside the onshore project areas are mitigated for via the use of good industry practice measures. These measures ensure noise, light and dust are temporally and spatially restricted. The eventuality of bentonite breakout is reduced by the use of micrositing and management plans by both Five Estuaries and North Falls | Minor adverse | N/A |
| Cumulative effect 2: Impacts on habitats | Short term moderate adverse cumulative effects are likely on hedgerows due to the period of time between North Falls and Five Estuaries' construction where habitat reinstatement won't be carried out. These will be reinstated post-construction of the second of the projects. No adverse cumulative effects on other habitats are expected as North Falls has committed to habitat reinstatement postconstruction. Potential moderate beneficial long term cumulative effects may occur on woodlands, | Moderate adverse for hedgerows in the short term. Moderate beneficial for woodlands, hedgerows and grasslands in the long term. Minor adverse for all other habitats | N/A |

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|---|--|---|---------------------------|
| | grasslands and hedgerows, as a result of biodiversity enhancements as part of North Falls' landscaping and BNG targets | | |
| Cumulative effect 3: impacts on protected and notable species | No cumulative effects are likely to impact badgers, roosting bats, water voles, otters and fish. Commuting/ foraging barbastelle and brown long-eared bats may all experience short term moderate adverse and hazel dormice may experience minor adverse cumulative effects due to hedgerow from losses resulting in habitat fragmentation. In the long term these cumulative effects are moderate beneficial, following hedgerow reinstatement and enhancement which would improve the quality and quantity of hedgerow in the local area. No cumulative effects are likely to impact other commuting/ foraging bat species. Great crested newts may experience short term minor adverse cumulative effects due to loss of terrestrial hedgerow habitats when not occupying their breeding ponds. Following reinstatement and enhancement of hedgerows post-construction, this cumulative effect will be minor beneficial. | Moderate adverse in the short term for commuting/ foraging barbastelle and brownlong eared bats. Minor adverse in the short term for hazel dormice. Moderate beneficial in the long term for commuting/ foraging barbastelle and brownlong eared bats, and hazel dormice. Minor adverse in the short term for great crested newts. Minor beneficial in the long term for great crested newts. Minor adverse for badgers, roosting bats, water voles, otters and fish | N/A |
| Operation | | | |
| Cumulative effect 1: Onshore substation operation | No cumulative effects are anticipated with Five Estuaries in relation to potential maintenance activities and onshore substation | Negligible | N/A |

| POTENTIAL | RATIONALE | CUMULATIVE | ADDITIONAL |
|-----------|--|------------|-------------|
| IMPACT | | EFFECT | MITIGATION* |
| | operational noise and light. Moderate beneficial cumulative effects are likely as a result of biodiversity enhancements provided by both North Falls and Five Estuaries. Due to the potential close proximity of Norwich to Tilbury and North Falls' substations, there is potential for cumulative effects ecological receptors, particularly on notable species and their habitats from operational noise and light impacts. These were assessed to be negligible for North Falls, due to mitigation measures outlined above. Even though little information is available on the operation of Norwich to Tilbury, if similar light and noise emissions are produced (even with mitigation) displacement of species could occur. These cumulative effects are likely to be temporary and localised, as displacement of species to other surrounding habitats will be minimal. Cumulative effects therefore are not anticipated to significant in EIA terms. | | |

Decommissioning

Decommissioning strategies have not yet been finalised for North Falls, Five Estuaries Farm or Norwich to Tilbury; however, the cumulative effects are expected to be the same as those of the initial construction phase.

| * A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation |
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1.4.17 Chapter 24 Onshore Ornithology [APP-038]

46.47. Table 1.21 provides a summary of the CEA outcomes for onshore ornithology. All projects with the potential for cumulative impacts identified for onshore ornithology are presented in Table 1.2.

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|------------------------------------|--|--|------------------------|
| Construction | | | |
| Impact 1: Habitat loss | Habitat loss associated with the onshore Project will mainly be short- or medium-term, temporary and reversible, with habitat reinstatement occurring as a priority in sensitive areas. Permanent loss of habitat associated with the onshore substation may affect a small number of corn bunting, grey partridge, yellow wagtail and skylark. There is potential for these IOFs to be affected by habitat loss associated with other projects. | Residual effects of no more than minor adverse for all IOFs when considering embedded and additional mitigation for all projects. Corn bunting residual effect would be minor to moderate adverse. | None |
| Impact 2: Construction disturbance | Construction disturbance will be temporary and localised within and surrounding a working width. Effects on birds may be short- term (the duration of a particular disturbance event) or medium-term (the duration of the construction phase). There is potential for breeding and non- breeding IOFs to be affected by disturbance from other projects in construction at the same time as North Falls. | Residual effects of no more than minor adverse for all IOFs when considering embedded and additional mitigation for all projects. Corn bunting residual effect would be minor to moderate adverse. | None |
| Operation | | | |
| No cumulative effects iden | tified. | | |
| Decommissioning | | | |

Decommissioning strategies have not yet been finalised for North Falls, Five Estuaries or Norwich to Tilbury; however, the cumulative effects are expected to be the same as those of the initial construction phase.

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1.4.18 Chapter 25 Onshore Archaeology and Cultural Heritage [APP-039]

47.48. Table 1.22 provides a summary of the CEA outcomes for onshore archaeology and cultural heritage. All projects with the potential for cumulative impacts identified for onshore archaeology and cultural heritage are presented in Table 1.2 Table 1.2 and Table 1.4.

Table 1.22 Potential cumulative impacts identified for Onshore Archaeology and Cultural Heritage

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|--|---|---|---------------------------|
| Construction | | | |
| Impact 2: direct physical impact on (permanent change to) non-designated heritage assets | Cumulative direct effects arising from two or more projects are possible given the level of uncertainty regarding the nature and extent of the potential archaeological resource. Impacts may occur to individual archaeological features (buried or above ground) in an area of overlap or those with an extent which intersects two or more proposed project boundaries (where groundworks are anticipated). Effects may occur which affect the nature of the archaeological resource on a wider scale. Such effects also have the potential to affect the Historic Landscape Character (HLC) of the study area (e.g., loss of earthworks as a result of one project could affect the HLC as summarised for the purposes of another project). | The overlapping nature of the project and others assessed in this chapter means that there is the potential for direct physical cumulative effects on buried archaeology, geoarchaeological and palaeoenvironmental deposits. As other projects will adopt a mitigation strategy, no likely significant direct physical cumulative effects during construction are predicted over and above the effects of North Falls. With these measures in place, direct physical cumulative effects during construction are anticipated to be nonsignificant in EIA terms. | N/A |
| Impact 4: indirect physical impact on (permanent change to) non-designated heritage assets | There are minor adverse impacts (as a worst case scenario) anticipated to occur to non-designated heritage assets from vibrational and hydrological impacts which may give rise to cumulative effect. Cumulative indirect effects arising from two or more projects are possible in an area of | The overlapping nature of the project and others assessed in this chapter means that there is the potential for indirect physical cumulative effects on buried archaeology, geoarchaeological and palaeoenvironmental deposits. As other projects will adopt a mitigation strategy, no likely significant indirect | N/A |

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|---|--|--|---------------------------|
| | overlap or those with an extent which intersects two or more proposed project boundaries (where groundworks are anticipated). | physical cumulative effects during construction are predicted over and above the effects of North Falls. With these measures in place, indirect physical cumulative effects during construction are anticipated to be non- significant in EIA terms. | |
| Impact 5: temporary change in the setting of designated heritage assets which may affect their heritage significance | Cumulative changes in heritage setting arising from two or more projects are possible, particularly in the event that the construction of two or more projects is concurrent and within sight of an individual heritage asset, although additional factors affecting setting may also occur. | Any cumulative change to heritage setting would be temporary and reversible. No likely significant cumulative effects on heritage setting during construction are predicted over and above the effects of North Falls. In consideration of the temporary nature of the construction period, cumulative effects on heritage setting are anticipated to be nonsignificant in EIA terms. | N/A |
| Operation | | | |
| Impacts 7 and 8: permanent change in the setting of heritage assets (both designated and non-designated) which may affect their heritage significance | Cumulative changes in heritage setting arising from two or more projects are possible, particularly in the event that the infrastructure of two or more projects occurs within sight of an individual heritage asset, although additional factors affecting setting may also occur. | Cumulative impacts may arise where structures within the North Falls onshore substation works area would be partly visible alongside other projects' infrastructure from selected heritage assets. As this change in view is not considered to alter these assets' settings or impact their heritage significance it is not anticipated that these would contribute to any cumulative impact arising from the presence other projects' infrastructure. | N/A |

Decommissioning

Decommissioning strategies have not yet been finalised for North Falls, Five Estuaries or Norwich to Tilbury; however, the cumulative effects are expected to be the same as those of the initial construction phase.

* A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.19 Chapter 26 Noise and Vibration [APP-040]

48.49. Table 1.23 provides a summary of the CEA outcomes for noise and vibration. All projects with the potential for cumulative impacts identified for noise and vibration are presented in Table 1.2. Table 1.2.

Table 1.23 Potential cumulative impacts identified for Noise and Vibration

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* | | |
|---|--|--|--|--|--|
| Construction | | | | | |
| Impact 1: Noise of landfall and nearshore works | Construction works associated with other projects in similar locations to the North | No significant cumulative effects are anticipated. | None | | |
| Impact 2: Noise of onshore cable route construction works | Falls construction activities have the potential to result in cumulative effects, | No significant cumulative effects are anticipated. | None | | |
| Impact 3: Noise of onshore substation construction works | where there is a temporal overlap. | No significant cumulative effects are anticipated. | None | | |
| Impact 4: Noise of Bentley Road improvement works | | No significant cumulative effects are anticipated. | None | | |
| Impact 5: Noise from off-site construction traffic | There is the potential for road traffic introduced by the construction of North Falls and traffic introduced by other nearby projects to result in cumulative road traffic noise impacts, where there is a temporal overlap. | Road traffic flows on Bentley Road have the potential to cause significant adverse cumulative effects. | Mitigation measures are proposed for inclusion in the Construction Traffic Management Plan and Code of Construction Practice, and noise level monitoring is proposed at the worst affected property. With this mitigation and monitoring in place, significant cumulative effects are not anticipated. | | |
| Impact 6: Construction vibration | There is the potential for cumulative construction vibration impacts with projects that are introducing nearby sources of vibration to the onshore cable route, where there is a temporal overlap. | No significant cumulative effects are anticipated. | None | | |
| Operation | | | | | |
| Impact 1: Onshore substation noise | There is the potential for cumulative operational noise impacts with projects | No significant cumulative effects are anticipated. | None | | |

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* | | |
|---|---|----------------------|---------------------------|--|--|
| | that are introducing industrial / commercial noise sources nearby to the onshore substation | | | | |
| Decommissioning | | | | | |
| Decommissioning strategies have not yet been finalised for North Falls or Norwich to Tilbury; however, the cumulative impacts are expected to be the same as those of the initial construction phase. | | | | | |

* A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.20 Chapter 27 Traffic and Transport [APP-041]

49.50. Table 1.24 provides a summary of the CEA outcomes for traffic and transport.

All plans and projects with the potential for cumulative impacts identified for traffic and transport are presented in Table 1.2.

Table 1.24 Potential cumulative impacts identified for Traffic and Transport

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* | |
|-----------------------------|---|--|--|--|
| Construction | | | | |
| Impact 1: Severance | Cumulative effects are considered possible upon links 4, 24, 25 and 33. | Negligible to Minor adverse on Link 4 | N/A | |
| Impact 2: Amenity | Cumulative effects are considered possible upon links 4, 24, 25, 26, 33, 35 and 37. | Negligible to Minor adverse on Link 4 | N/A | |
| Impact 3: Highway Safety | Cumulative effects are considered possible at the following clusters: Cluster 1, located on Link 1; | Minor adverse in Clusters 8 and 11 and on links 22 and 23. | Enhanced maintenance measures as well as enhanced driver inductions | |
| | Cluster 2; located between links 1, 2 and 20; | | | |
| | Cluster 3, located between links 20, 21b and 43; | | | |
| | Cluster 4, located on Link 43; | | | |
| | Cluster 5, located on Link 21b; | | | |
| | Cluster 8, located between links 23, 24 and 48; | | | |
| | Cluster 9, located on Link 24; and | | | |
| | Cluster 11, located on Link 32. | | | |
| | Cumulative effects are also considered possible at the following links which have collision rates higher than the national average (Links 3, 15, 16, 22, 23 and 45) | | | |

POTENTIAL RATIONALE CUMULATIVE ADDITIONAL IMPACT EFFECT MITIGATION*

Operation

Operational effects were scoped out of the primary assessment and therefore there would be no cumulative operational effects.

Decommissioning

Decommissioning strategies have not yet been finalised for North Falls, Five Estuaries or Norwich to Tilbury; however, the cumulative effects are expected to be the same as those of the initial construction phase.

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.21 Chapter 28 Human Health [APP-042]

50.51. Table 1.25 provides a summary of the CEA outcomes for human health. All projects with the potential for cumulative impacts identified for human health are presented in Table 1.3.

Table 1.25 Potential cumulative impacts identified for Human Health

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|--|--|---|--|
| Construction and Opera | tion | | |
| Cumulative effect 1: Noise effects | There is the potential for construction works associated with other projects in similar locations to the North Falls construction activities to result in cumulative effects | No adverse significant effect for population near landfall, population along the onshore cable route and population near the onshore substation | No additional mitigation proposed. |
| Cumulative effect 2: Air quality effects | cumulative effects, where there is a temporal overlap. | No adverse significant effect for population near landfall, population along the onshore cable route and population near the onshore substation | No additional mitigation proposed. |
| Cumulative effect 3: Ground and/or water contamination effects | | No adverse significant effect for population near landfall, population along the onshore cable route and population near the onshore substation | No additional mitigation proposed. |
| Cumulative effect 4: Physical activity effects | | No adverse significant effect for population near landfall, population along the onshore cable route and population near the onshore substation | Providing reopening signs and notices that advertise the reopening of the route and promote active travel connectivity to destinations; and liaison with Essex County Council about proposed construction works on Public Rights of Way. |
| Cumulative effect 5: Journey times and/or reduced access effects | | No adverse significant effect for population near landfall, population along the onshore cable route and population near the onshore substation | No additional mitigation proposed. |
| Cumulative effect 6: Employment effects | There is the potential for cumulative construction and operational employment effects with projects that are also developing | No adverse significant effect for population near landfall, population along the onshore cable route and population | No additional mitigation proposed. |

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|---|--|---|------------------------------------|
| | within the socio- economic study area. | near the onshore substation Possibility for major beneficial significant effects on employment | |
| Cumulative effect 7: Wider societal benefits | There is the potential for cumulative wider societal benefits with projects that are delivering renewable sources of energy. | No adverse significant effect for population near landfall, population along the onshore cable route and population near the onshore substation | No additional mitigation proposed. |
| Decommissioning | | | |

Decommissioning strategies have not yet been finalised for North Falls, Five Estuaries or Norwich to Tilbury; however, the cumulative effects are expected to be the same as those of the initial construction phase.

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.22 Chapter 29 Seascape, Landscape and Visual Impact Assessment [APP-043]

51.52. Table 1.26 provides a summary of the CEA outcomes for seascape, landscape and visual Impact Assessment (SLVIA). All projects with the potential for cumulative impacts identified for SLVIA are presented in Table 1.3.

Table 1.26 Potential cumulative impacts identified for Seascape, Landscape and Visual Impact Assessment

| POTENTIAL IMPACT | RECEPTOR | CUMULATIVE EFFECTS |
|---|---|---|
| Operation | | |
| Effects on Marine Character Areas | East Anglian Shipping Waters SCA04. | Moderate adverse (significant) within an area up to 10km around the array area. This is a result of interactions with the existing Galloper and Greater Gabbard offshore wind farms, and the proposed Five Estuaries. |
| | Suffolk Coastal Waters SCA10. | The effect is predicted to be moderate-minor, which is not significant in EIA terms. |
| Effects on Onshore Landscape Character | Suffolk Coastal Waters SCA10. | The effect is predicted to be moderate-minor, which is not significant in EIA terms. |
| | Coastal levels LCT6. | The effect is predicted to be moderate-minor, which is not significant in EIA terms. |
| | Rolling estate sandlands LCT16. | The effect is predicted to be moderate-minor, which is not significant in EIA terms. |
| | Saltmarsh and inter-tidal flats LCT20. | The effect is predicted to be moderate-minor, which is not significant in EIA terms |
| | Coastal ridges and peninsulas – The Naze Peninsula Landscape Character Area (LCA) 4B. | No significant cumulative effects are anticipated. |
| Effects on Landscape Designations | Suffolk and Essex Coast and Heaths National Landscape. | The effect is predicted to be moderate-minor, which is not significant in EIA terms. |
| Effects on Views | Viewpoint 1 – Covehithe. | Cumulative effects will be negligible, which is not significant in EIA terms. |
| | Viewpoint 2 - Southwold Pier. | Cumulative effects will be negligible, which is not significant in EIA terms. |
| | Viewpoint 3 - Dunwich Coastguard Cottages. | Cumulative effects will be negligible, which is not significant in EIA terms. |

| POTENTIAL IMPACT | RECEPTOR | CUMULATIVE EFFECTS |
|-------------------|--|--|
| | Viewpoint 4 - Sizewell Beach. | Cumulative effects will be negligible, which is not significant in EIA terms. |
| | Viewpoint 5 - Cliffs above Thorpeness. | Cumulative effects will be minor, which is not significant in EIA terms. |
| | Viewpoint 6 – Aldeburgh. | Cumulative effects will be minor, which is not significant in EIA terms. |
| | Viewpoint 7 - Orford Castle. | No cumulative effects are predicted. |
| | Viewpoint 8 - Orford Ness. | Cumulative effects will be moderate, which is significant in EIA terms |
| | Viewpoint 9 – Shingle Street. | Cumulative effects will be moderate, which is significant in EIA terms |
| | Viewpoint 10 - Pulhamite Cliffs (Bawdsey Manor). | Cumulative effects will be moderate, which is significant in EIA terms |
| | Viewpoint 11 - Felixstowe Seafront Gardens. | Cumulative effects will be moderate, which is significant in EIA terms |
| | Viewpoint 12 - Landguard Fort. | Cumulative effects will be moderate, which is significant in EIA terms |
| | Viewpoint 13 - Naze Tower. | Cumulative effects will be moderate, which is significant in EIA terms |
| | Viewpoint 14 - Frinton on Sea. | Cumulative effects will be minor, which is not significant in EIA terms. |
| | Viewpoint 15 - Clacton on Sea. | No cumulative effects are predicted. |
| | Viewpoint 16 - North Foreland. | No cumulative effects are predicted. |
| Effects on Routes | Suffolk Coast Path. | Moderate adverse and significant, from a section of the path between the mouth of the Butley River and Landguard Point (19km). |

POTENTIAL IMPACT RECEPTOR CUMULATIVE EFFECTS

Construction and Decommissioning

Due to the similar nature of activities involved in both the construction and dismantling of an offshore wind farm, seascape, landscape and visual effects no greater than those assessed for the operational stage are expected to continue through the three-year decommissioning period. After the conclusion of decommissioning all seascape, landscape and visual effects will cease.

1.4.23 Chapter 30 Landscape and Visual Impact Assessment [APP-044]

52.53. Table 1.27 provides a summary of the CEA outcomes for landscape and visual impact assessment (LVIA). All projects with the potential for cumulative impacts identified for LVIA are presented in Table 1.3.

Table 1.27 Potential cumulative impacts identified for Landscape and Visual Impact Assessment

| POTENTIAL IMPACT | RECEPTOR | CUMULATIVE EFFECT at Year 1 (including embedded mitigation) | Significance of Effect at Year 15 (Including Mature Embedded Mitigation) | ADDITIONAL MITIGATION <u>*</u> |
|--------------------------------------|--|--|---|--|
| Construction | | | | |
| Effects on Landscape Fabric | Landscape fabric of the onshore substation works area. | Moderate adverse | N/A | Mitigation measures during the construction phase are set out in Table 30.3 as |
| Effects on Landscape Character | 7A Bromley Heaths LCA. | Moderate adverse (locally) Minor adverse (for the wider LCA) | N/A | embedded mitigation. No additional landscape and visual construction stage mitigation |
| Effects on Views | VP1 - Court Farm, Stutton Road. | Negligible | N/A | measures are proposed. Further details are provided in the |
| | VP2 - Bridleway at Barn Lane. | Moderate adverse | N/A | Outline Landscape and Ecological Management Strategy (OLEMS) [REP1-035]. |
| | VP3 - Norman's Farm. | Major adverse | N/A | |
| | VP4 - Little Bromley Road to west. | Minor adverse | N/A | |
| | VP5 – Public Moderate N/A Rights of Way adverse (PRoW) near Lilley's Farm. | N/A | | |
| | VP6 - Grange Road to north. | Minor adverse | N/A | |
| | VP7 - PRoW near Little Bromley Hall. | Minor adverse | N/A | |
| | VP8 Essex Way, Dedham Road. | Negligible | N/A | |
| | Receptors along the landfall and onshore cable route. | Up to Moderate adverse | N/A | |

| POTENTIAL IMPACT | RECEPTOR | CUMULATIVE EFFECT at Year 1 (including embedded mitigation) | Significance of Effect at Year 15 (Including Mature Embedded Mitigation) | ADDITIONAL MITIGATION* |
|--------------------------------------|---|--|---|--|
| Operation | | | | |
| Effects on Landscape Fabric | Landscape Impacts on the onshore substation works area. | Moderate adverse | Moderate Adverse | Landscape and visual mitigation is discussed in the Design Vision document [APP-234] and the |
| Effects on Landscape Character | 7A Bromley Heaths LCA. | Moderate adverse (locally) Minor adverse (for the wider LCA) | Minor Adverse | OLEMS (Document reference: 7.14). |
| | 2C – Holland Haven LCA | Negligible | Negligible | |
| | 3D – Holland Coastal Slopes LCA | Negligible | Negligible | |
| | 8B – Clacton and the Sokens Clay Plateau LCA | Negligible | Negligible | |
| | 3A – Hamford Coastal Slopes LCA | Negligible | Negligible | |
| | 8A – Tendring and Wix Clay Plateau LCA | Negligible | Negligible | |
| | 6D – Holland Valley System LCA | Negligible | Negligible | |
| Effects on Views | VP1 - Court Farm, Stutton Road. | Negligible | Negligible | |
| | VP2 - Bridleway at Barn Lane. | Moderate adverse | Minor Adverse | |
| | VP3 - Norman's Farm. | Major adverse | Moderate Adverse | |
| | VP4 - Little Bromley Road to west. | Minor adverse | Minor Adverse | |
| | VP5 - PRoW near Lilley's Farm. | Moderate adverse | Minor Adverse | |

| POTENTIAL IMPACT | RECEPTOR | CUMULATIVE EFFECT at Year 1 (including embedded mitigation) | Significance of Effect at Year 15 (Including Mature Embedded Mitigation) | ADDITIONAL MITIGATION* |
|---------------------|---|---|---|---------------------------|
| | VP6 - Grange Road to north. | Minor adverse | Minor Adverse | |
| | VP7 - PRoW near Little Bromley Hall. | Minor adverse | Minor Adverse | |
| | VP8 – Essex Way, Dedham Road. | Negligible | Negligible | |
| | Receptors along the landfall and onshore cable route | Negligible | Negligible | |

Decommissioning

No decision has been made regarding the final decommissioning policies for North Falls as it is recognised that industry best practice, rules and legislation change over time. The detail and scope of decommissioning works would be determined by the relevant legislation and guidance at the time of decommissioning and would be agreed with the regulator with a Decommissioning Programme provided. However, it is considered likely that the onshore substation would be removed and would be reused or recycled and that the onshore cables would be removed and recycled, with the landfall transition joint bays and cable ducts (where used) left in situ. For the purposes of a worst-case scenario, it is considered that the impacts associated with the decommissioning phase would be no greater than those identified for the construction phase.

* A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.24 Chapter 31 Socio-economics [AS-010]

53.54. Table 1.28 provides a summary of the CEA outcomes for socio-economics. All projects with the potential for cumulative impacts identified for socio-economics are presented in Table 1.2.Table 1.3

Table 1.28 Potential cumulative impacts identified for Socio-economics

| Table 1.20 Potential Cumulative | Table 1.28 Potential cumulative impacts identified for Socio-economics | | | |
|---|---|---------------------------------|---|--|
| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* | |
| Construction | | | | |
| Economic value | Multiple construction projects over a sustained period could increase investment and economic benefits for local, sub-regional and national economies. There is also scope to strengthen local supply chains. | Major beneficial (significant) | N/A | |
| Employment | Multiple construction projects could increase the number of employment opportunities. | Major beneficial (significant) | N/A | |
| Pressure on local onshore infrastructure and services (health, not housing) | Multiple construction projects could result in increased in-migration resulting in change to the demographic profile. Increased population at the local level may increase pressure on the provision of social, community, housing and health infrastructure. | Minor adverse (not significant) | N/A | |
| Disturbance (noise, air, visual, and traffic) to onshore social and community infrastructure facilities | Where onshore projects are in close proximity to each other there may be potential for cumulative effects on noise, air quality, visual amenity and traffic, which causes disruption to social and community infrastructure. | Minor adverse (not significant) | N/A | |
| Wider economic effects from disruption to shipping and navigation | Should the development of multiple offshore projects cause further disruption to shipping lanes there may be | Minor adverse (not significant) | N/APotential socio- economic impacts on ports have been minimised by keeping at least one of the two deep water routes | |

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION <u>*</u> |
|---|---|-----------------------------------|---|
| | potential for greater levels of impact on the operations of the ports of Felixstowe and. Harwich, and the Port of London which in turn could impose economic costs on the local area. | | (Sunk and Trinity) into the London ports, undisturbed at all times. This would be achieved by the Outline Navigation and Installation Plan (oNIP) (Document Reference 7.24) which prevents construction works amongst concurrent projects to take place across both of the access routes at the same time. Thus, one access route into the ports will be undisturbed by construction works. The access routes are being discussed in ongoing meetings with the ports and the tables in the oNIP will be updated at Deadline 6. |
| Wider economic effects from disruption to fishing | The development of multiple offshore projects could have a potential negative cumulative effect on the volume and value of fishing catches. This in turn could affect the incomes of communities that are dependent on fishing. | Minor adverse (not significant) | N/A |
| Wider economic effects related to minerals | Residual effects on Mineral Safeguarding Areas and Mineral Consultation Areas may be exacerbated by other projects if located within the same safeguarding area. | Minor adverse (not significant) | N/A |
| Operation | | | |
| Economic value | Substantial long-term and permanent employment and economic benefits (both direct and indirect) may be supported as a result of Operation & | Moderate beneficial (significant) | N/A |

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|--|---|-----------------------------------|---------------------------|
| | Maintenance (O&M) supported by cumulative projects. A strategic approach to the delivery and O&M of cumulative projects could lead to increased investment and development of the local supply chain. In addition, increased employment opportunities may lead to opportunities for upskilling and reskilling of the local labour market. | | |
| Employment | Substantial long-term and permanent employment and economic benefits (both direct and indirect) may be supported as a result of O&M supported by cumulative projects. A strategic approach to the delivery and O&M of cumulative projects could lead to increased investment and development of the local supply chain. In addition, increased employment opportunities may lead to opportunities for upskilling and reskilling of the local labour market. | Moderate beneficial (significant) | N/A |
| Pressure on local onshore infrastructure and services (accommodation and health) | Due to the long-term and permanent nature of the jobs, there may be potential for long-term changes to the local population due to inwardmigration. The operational phase typically supports fewer jobs, and therefore have a lower impact on demographics. Furthermore, the potential for re-skilling and up-skilling local workers could reduce the need for in- | Minor adverse (not significant) | N/A |

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION <u>*</u> |
|---|---|---------------------------------|---|
| | migration. Increased levels of in-migration due to the employment needs of cumulative projects may increase pressure on and/ or reduce access to social, community, housing and health infrastructure for existing residents. | | |
| Disturbance (noise, air, visual, and traffic) to onshore social and community infrastructure facilities | Social and community infrastructure facilities (i.e., social, community and health infrastructures) within the Local Onshore Cable Area of Influence (LOCAI) may experience limited cumulative onshore disturbance in areas where projects overlap with the LOCAI and add to the levels of disruption | Negligible (not significant) | N/A |
| Wider economic effects from disruption to shipping and navigation | Should the O&M of multiple offshore projects cause further disruption to shipping lanes there may be potential for greater levels of impact on the operations of the ports of Felixstowe and Harwich and the Port of London, which in turn could impose costs on the local economy and supply chains | Negligible (not significant) | N/AWider economic effects from disruption to shipping and navigation have been minimised through the Applicant's commitment to dredging of the seabed within the Sunk and Trinity DWRs to a depth of at least 22m below Chart Datum (CD) in order not to preclude future dredging of the DWR. Additionally, the Outline Navigation and Installation Plan (oNIP) (Document Reference 7.24) will manage maintenance or repair including cable repair and reburial to ensure that North Falls O&M activities will not preclude both deep water routes access into the London ports, at the same time. |
| Wider economic effects from disruption to fishing | The operation of multiple offshore projects could have a | Minor adverse (not significant) | N/A |

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION* |
|--|--|---------------------------------|---------------------------|
| | potential cumulative impact on the volume and value of fishing catches. This in turn could affect the incomes of communities that are dependent on fishing | | |
| Wider economic effects related to minerals | Residual effects on Mineral Safeguarding Areas and Mineral Consultation Areas may be exacerbated by other projects if located within the same safeguarding area. | Minor adverse (not significant) | N/A |

Decommissioning

Decommissioning strategies have not yet been finalised for North Falls, Five Estuaries or Norwich to Tilbury; however, the cumulative effects are expected to be the same as those of the initial construction phase.

^{*} A summary of the embedded mitigation commitments can be found in Document 2.6 Schedule of Mitigation [REP5-006].

1.4.25 Chapter 32 Tourism and Recreation [APP-046]

54.55. Table 1.29 provides a summary of the CEA outcomes for tourism and recreation. All projects with the potential for cumulative impacts identified for tourism and recreation are presented in Table 1.3.

Table 1.29 Potential cumulative impacts identified for Tourism and Recreation

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION |
|---|--|--|--|
| Construction | | LITEOT | MITIGATION |
| Impact 1: Impact on users' enjoyment of recreational and tourist assets due to the construction of onshore infrastructure | Cumulative direct effects associated with disruptions to onshore tourism and recreational assets are possible if onshore construction works associated with multiple developments occur concurrently and in proximity to North Falls' onshore project area. | Negligible (not significant) / Minor adverse (not significant) depending on the receptor | Not required as no significant effects have been identified. |
| Impact 2: Impact on enjoyment of marine and coastal recreational and tourism assets due to the construction of offshore infrastructure | Cumulative direct effects associated with disruptions to marine and coastal tourism and recreational activities are possible if marine construction traffic and offshore construction works associated with multiple developments occur concurrently and in proximity to North Falls' offshore project area. | Negligible (not significant) | Not required as no significant effects have been identified. |
| Impact 3: Reductions in tourist accommodation availability due to a non-resident workforce | Cumulative effects associated with reductions in tourist accommodation availability may occur at a regional scale if peak construction demand associated with multiple developments overlap temporally and spatially with North Falls' onshore construction programme and the high season months. | Minor adverse (not significant) | Not required as no significant effects have been identified. |
| Impact 4: Impact on the volume and value of tourism due to construction | Cumulative effects arising from multiple developments in close proximity to North Falls and with temporal overlap with North Falls have the potential to | Minor adverse (not significant) | Not required as no significant effects have been identified. |

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION |
|---|---|---|--|
| | affect the volume and value of visitors to Essex and Suffolk. | | |
| Operation | | | |
| Impact 1: Impact of operational activity on onshore infrastructure on the enjoyment of tourism and recreational assets | Multiple developments in proximity to North Fall's onshore substation may be visible to visitors using nearby PRoW and other non-motorised routes. Cumulative effects arising from multiple developments in proximity to North Falls have the potential impact to PRoW and other non-motorised routes | Negligible (usually), Negligible - minor adverse when / if repairs are needed (not significant) | Not required as no significant effects have been identified. |
| Impact 2: Impact of operational activity on offshore infrastructure on the enjoyment of tourism and recreational assets | Multiple developments in proximity to North Falls' array area may be visible to visitors from shore and those engaging in marine tourism and recreational activities. Cumulative direct effects associated with disruptions to marine tourism and recreational activities are possible if offshore O&M works associated with multiple developments occur concurrently and in proximity to North Falls' offshore project area. | Negligible (not significant) | Not required as no significant effects have been identified. |
| Impact 3: Reductions in tourist accommodation availability due to a non-resident workforce | Due to the minimal scale of demand for accommodation during the operational phase of projects the operation of multiple offshore and onshore projects would have a minimal potential cumulative impact on the availability of visitor accommodation. | Negligible (not significant) | Not required as no significant effects have been identified. |
| Impact 4: Impact on the volume and value of tourism during operations | The operation of multiple offshore and onshore projects could have a potential cumulative impact on the volume and value of | Minor adverse (not significant) | Not required as no significant effects have been identified. |

| POTENTIAL IMPACT | RATIONALE | CUMULATIVE EFFECT | ADDITIONAL MITIGATION |
|---------------------|--|----------------------|--------------------------|
| | tourism. For instance this may be through potential visual cumulative impacts of other offshore wind projects or cumulative impacts on visitor perceptions of the Essex and Suffolk coast. | | |
| Decommissioning | | | |

Decommissioning strategies have not yet been finalised for North Falls, Five Estuaries or Norwich to Tilbury; however, the cumulative effects are expected to be the no worse than those of the initial construction phase.

1.4.26 Chapter 33 Climate Change [APP-047]

55.56. Table 1.30 provides a summary of the CEA outcomes for climate change. All projects with the potential for cumulative impacts identified for climate change are presented in Table 1.2.Table 1.3.

Table 1.30 Potential cumulative impacts identified for Climate Change

| POTENTIAL IMPACT | CUMULATIVE EFFECT | ADDITIONAL MITIGATION | | |
|--|--|-----------------------|--|--|
| Construction, Operation and Decommissioning | | | | |
| Impact 1: Greenhouse Gas (GHG) assessment | Cumulative effects in relation to GHGs emissions do not require an assessment. | N/A | | |
| Impact 2: Cumulative impact of climate change on the Project | Cumulative effects are not expected. | N/A | | |

1.5 References

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HARNESSING THE POWER OF NORTH SEA WIND

North Falls Offshore Wind Farm is being developed on a site more than 20 kilometres off the UK coast in the southern North Sea and covers a total area of 150 km². It is an extension project to the adjacent 504 megawatt Greater Gabbard Offshore Wind Farm, opened in 2013.

It is being developed by a joint venture company owned equally by SSE Renewables and RWE.

The project is in a very early phase so there are limited details, however if you would like to contact the project team please email contact@northfallsoffshore.com

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