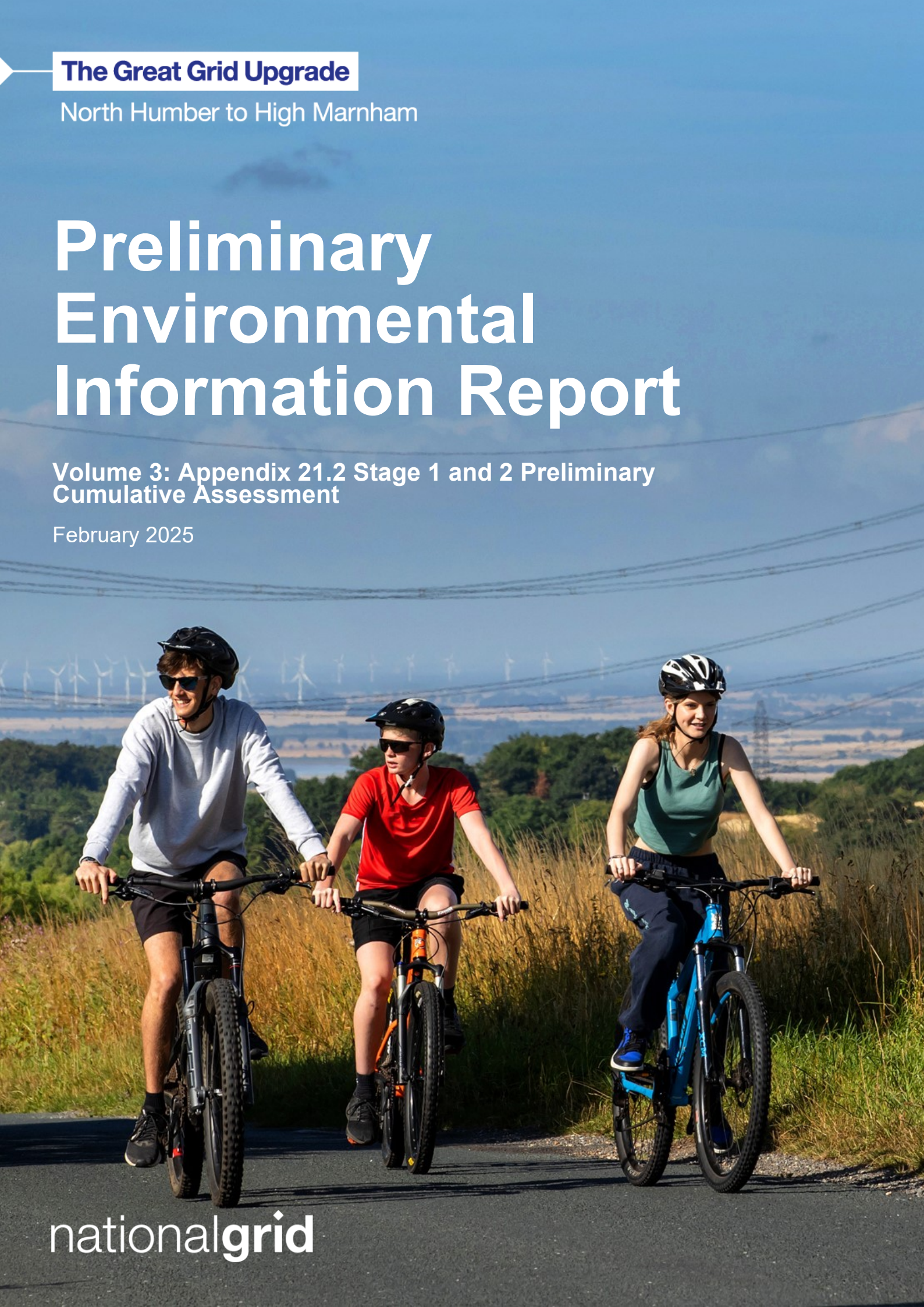
The Great Grid Upgrade

North Humber to High Marnham

Preliminary Environmental Information Report

Volume 3: Appendix 21.2 Stage 1 and 2 Preliminary Cumulative Assessment

February 2025



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North Humber to High Marnham
Document control

Document Properties	
Organisation	AECOM
Author	AECOM
Approved by	National Grid
Title	Preliminary Environmental Information Report (PEIR) Appendix 21.2 Stage 1 and 2 Preliminary Cumulative Assessment
Document Register ID	NHHM–NG–ENV–REP–001
Data Classification	Public

Version History

Document	Version	Status	Description / Changes
Appendix 21.2	1.0	Final	First Issue

1. Introduction

1.1 Overview

1.1.1 This section presents the short list (Stage 2) and the technical specialists' input into establishing the short list.

1.1.2 Table 1.1 presents the study areas associated with each environmental topic.

Table 1.1 – Largest study areas for environmental topics

Environmental topic	**Study areas** (measured from the draft Order Limits unless otherwise stated)
Landscape	5 km from the Limits of Deviation (LoD) for all landscape receptors
Visual	5 km from the LoD for all visual receptors
Ecology & Ornithology	30 km[1] – Special Areas of Conservation (SAC) and Special Protection Areas (SPA) where (respectively) bats or bird species with large foraging ranges are noted as qualifying features. 10 km – Statutory designated sites of international nature conservation value e.g. SACs, SPAs, and Ramsar sites (as well as proposed or potential sites). 5 km – Statutory designated sites of national and local nature conservation value 2 km – non-statutory designated sites of nature conservation value and records of protected and notable species received from the Local Records Centres (LRC).
Cultural Heritage	1 km for all designated and non-designated assets 3 km for assets of the highest significance
Water Environment	0.5 km
Geology and Hydrogeology	0.25 km for geology and contaminated land 0.5 km for hydrogeology
Agriculture and Soils	1 km
Traffic and Transport	Construction Traffic Routes and Public Rights of Way (PRoW)
Air Quality	0.25 km for human receptors and 0.05 km for ecological receptors – construction dust

[1] See Para 1.1.3 below

Environmental topic	Study areas (measured from the draft Order Limits unless otherwise stated)
	0.05 km from the route(s) used by construction vehicles on the public highway, up to 0.25 km from the proposed bellmouths – dust from trackout during construction 0.2 km from construction traffic routes which exceed the IAQM and EPUK Development Control screening criteria – construction vehicle emissions 0.2 km from the construction compounds – Non-Road Mobile Machinery (NRMM) emissions
Noise and Vibration	0.3 km construction noise 0.1 km construction vibration Construction Traffic Routes – construction traffic noise
Socio-economics, Recreation and Tourism	60 m drive time area for employment* 1 km for local communities 0.5 km for all other receptors
Health and Wellbeing	The cumulative study area is defined based on the geographic extent of the cumulative study areas for the topics Health and Wellbeing is dependent on.
Climate	The study area is defined based on the geographic extent of other topics for each environmental aspect of relevance to climate

*for cumulative economic impacts, professional judgement has been used to determine which cumulative schemes are assessed within a 60-minute drive time, as only comparable major infrastructure projects are anticipated to lead to potential significant cumulative socio-economic effects.

1.1.3 With regard to ecology and ornithology, a 30 km study area was applied to identify SACs and SPAs for certain species of birds and bats. The assessment has concluded the identification of one international designated site (for qualifying ornithological features), located approximately 15 km from the draft Order Limits, with no potential effect. As such the 30 km study area has not been used to define the cumulative ZoI (largest study area doubled) as this would be unrealistic in relation to the potential for likely cumulative effects. Instead, the cumulative ZoI has been based off the 10 km ecology and ornithology study area and, accordingly, a ZoI of 20 km from the draft Order Limits has been adopted to identify the long list of other developments. This distance is also deemed appropriate to capture developments that may result in cumulative effects for topics that have more bespoke study areas such as Traffic and Transport and Socio-economics, Recreation and Tourism. This is illustrated on **Figure 21.1 Cumulative Long List of other Developments**. This will be kept under review as the Project develops and the long list updated as required.

1.1.4 The preliminary assessment of the potentially relevant planning applications is based on the best available information obtained at the time of undertaking the assessment. The level of information for application varies in detail Tier 1 (most certain) to Tier 3 (least certain)[2] and as a result some applications have used a centre point to measure distance, whilst others have been able to measure from their Planning application boundaries to the draft Order Limits of the Project.

[2] Nationally Significant Infrastructure Projects: Advice on Cumulative Effects Assessment https://www.gov.uk/guidance/nationally-significant-infrastructure-projects-advice-on-cumulative-effects-assessment

2. Stage 1 and Stage 2 Cumulative Effects Assessment

2.1 Preliminary Assessment Tables

2.1.1 Table 2.1 to Table 2.80 present the outcomes of the Stage 1 and Stage 2 review of potential inter-project effects between the Project and other developments, identifying where shared receptors and relevant pathways exist that could result in cumulative effects.

Table 2.1 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA East Yorkshire Solar Farm (EN010143) (ID 1)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	No	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	No
Ecology	Yes	Yes	Yes	No – location and nature of this development unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	Yes – Potential for cumulative effects due to shared receptors and location within theoretical foraging distance of qualifying species of Humber Estuary Ramsar/SPA and Site of Special Scientific Interest (SSSI).	Yes
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects.	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to the location of this development, it is unlikely to have a significant cumulative effect on the project.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	There is potential for cumulative Socio-economics, Recreation and Tourism effects from construction workforce availability.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Potential likely cumulative effects are expected in the Socio-economics, Recreation and Tourism assessment, which the Health and Wellbeing cumulative assessment is dependent on.	Yes

Table 2.2 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Continental Link Multi-Purpose Interconnector (EN020025) (ID 2)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within an area of landscape defined by a single Landscape Character Type (LCT) (LCT16: Sloping Farmland), and within the same visual receptor area (Rowley parish).	Yes
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors, such as designated sites, notable habitats and protected species due to the distance between this development and the Project.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors (such as species and designated sites) due to the short distance between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in any physical impacts on heritage assets that fall within the Project. The nature and proximity of this development, however, means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	Yes	Yes	Yes	There are Common hydrological catchments and potential shared impact pathways to water environment receptors. However, legislation and planning require new development to control and mitigate impacts on the water environment, including flood risk during both construction and operation. Therefore, cumulative adverse effects in relation to the water environment are unlikely.	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources have not been	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will be bound by its own Code of Construction Practice (CoCP), and in turn a Construction Environmental Management Plan (CEMP) where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (primary access routes (PARs)) that are also associated with the construction of the Project. This includes the A1079.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects. Additionally, there is the potential for cumulative effects as a result of construction dust, as this development is within the construction dust study area of the Project.	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Noise and Vibration	Yes	Yes	TBC	The Project has shared receptors during the construction phase. Construction noise and vibration may have a cumulative effect.	Yes
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	There is potential for cumulative Socio-economics, Recreation and Tourism effects from construction workforce availability.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within Air Quality; Socio-economics, Recreation and Tourism; Noise and Vibration; Water Environment; Landscape and Visual; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.3 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Drax Bioenergy with Carbon Capture and Storage Project (EN010120) (ID 4)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	n/a	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	No
Ecology	Yes	Yes	Yes	The location, nature and scale of this development is unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	No. Location, nature and scale of this development unlikely to have a significant cumulative effect	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the M62 and A161.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				associated with the construction of the Project. This could result in cumulative air quality effects.	
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	Yes	No	Yes	No, the nature of this development is unlikely to have a significant cumulative effect.	No
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.4 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA North Lincolnshire Green Energy Park (EN010116) (ID 7)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same LCT (LCT Trent Levels Flat Drained Farmland), the location of this development within an existing industrial area means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	Yes – Potential shared receptors/pathways, such as designated sites, due to the distance between this development and the Project.	Yes
Ornithology	Yes	Yes	Yes	Yes – Shared receptors/pathways such as designated sites, due to the distance between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This Development is unlikely to result in any physical impacts on heritage assets that fall within the Project. Likewise, the nature, intervening vegetation, buildings and power infrastructure means there is unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the M181 and M180.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with the energy park development	No
Socio-economics, Recreation and Tourism	Yes	No	Yes	There is potential for cumulative Socio-economics, Recreation and Tourism effects from construction workforce availability.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.5 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Keadby 3 Carbon Capture Power Station (EN010114) (ID 8)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Landscape No – Although this development and the Project are in close proximity, they are not located within the within the same landscape character area and the location within an existing industrial area means significant cumulative effects on landscape receptors are unlikely. Visual Yes – Both this development and the Project may affect views from surrounding visual receptors areas (Crowle and Ealand, Eastoft, Amcotts and Belton) and could result in significant cumulative visual effects.	Yes – Visual only
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors, such as designated sites, notable habitats and protected species due to the distance between this development and the Project.	Yes
Ornithology	Yes	Yes	Yes	Yes – Likely shared receptors, such as designated sites, notable habitats and protected species due to the distance between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in any physical impacts on heritage assets that fall within the Project. The nature and proximity of this development, however, means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	No	No	n/a	n/a	n/a

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A18, A161 and M180 and Keadby two lane.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	Yes	No	Yes	There is potential for cumulative Socio-economics, Recreation and Tourism effects from construction workforce availability.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.6: – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Gate Burton Energy Park (EN010131) (ID 12)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – This development and the Project are not within the same landscape character area. Although this development falls within the theoretical visibility for the Project, the presence of several overhead lines and the distance between this development and the Project means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	No – location and nature of this development unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	No. Location and nature of this development unlikely to have a significant cumulative effect	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to the nature and location of this development, there are unlikely to be significant cumulative effects.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	There is potential for cumulative Socio-economics, Recreation and Tourism effects from construction workforce availability.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within the Socio-economics chapter; the Health and Wellbeing cumulative assessment is dependent on this chapter.	Yes

Table 2.7: – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA West Burton Solar Project (EN010132) (ID 14)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	n/a	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	n/a
Ecology	Yes	Yes	Yes	Yes – Possible shared receptors, such as designated sites, due to the distance between this development and the Project.	Yes
Ornithology	Yes	Yes	Yes	Yes – possible shared receptors, such as designated sites, due to the distance between this development and the Project.	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to the location of this development, there are unlikely to be significant cumulative effects.	No
Noise and Vibration	No	No	n/a	n/a	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Socio-economics, Recreation and Tourism	Yes	No	Yes	There is potential for cumulative Socio-economics, Recreation and Tourism effects from construction workforce availability.	Yes
Health and Wellbeing	No	No	Yes	Yes – Likely cumulative effects are expected within Socio-economics, Recreation and Tourism; the Health and Wellbeing cumulative assessment is dependent on this chapter.	Yes

Table 2.8: – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Tween Bridge Solar Farm (EN010148) (ID 296)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are in close proximity, they are not located within the within the same landscape character area and separated by Crowle and Ealand which means significant cumulative effects on landscape receptors are unlikely. Visual Yes – Both this development and the Project are located within the same visual receptors areas (Crowle and Ealand, Eastoft and Belton) and could result in significant cumulative visual effects.	Yes – visual only
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors, such as designated sites and protected species due to the distance between this development and the Project.	Yes
Ornithology	Yes	Yes	Yes	Yes – Shared receptors and pathways, such as designated sites and protected species due to the distance between this development and the Project.	Yes
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes A18.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	Yes	No	Yes	There is potential for cumulative Socio-economics, Recreation and Tourism effects from construction workforce availability.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.9: – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA One Earth Solar Farm (EN010159) (ID 354)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same regional landscape character types (RLCT) (RLCT 3a Floodplain Valleys and RLCT 4a Unwooded Vales) and within the same visual receptor area (Darlton parish, Ragnall parish, Fledborough parish and Marnham parish) and could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Potential shared receptors, such as designated sites, due to the distance between this development and the Project.	Yes
Ornithology	Yes	Yes	Yes	Yes – Potential shared receptors, such as designated sites, due to the distance between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is likely to result in physical impacts on heritage assets that fall within the Project. Likewise, the nature and proximity of this development means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	Yes	No	n/a	Some common receptors (tributaries of the River Trent) however, legislation and planning require new development to control and mitigate impacts on the water environment, including flood risk during both construction and operation. Therefore, cumulative adverse effects in relation to the water environment are unlikely.	No
Geology and Hydrogeology	Yes	Yes	n/a	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources have not been identified within the Project. In addition, legislation and planning requires	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will be bound by its own Code of Construction Practice (CoCP), and in turn a Construction Environmental Management Plan (CEMP) where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A57.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	Yes	Yes	Yes	There are potential shared noise sensitive receptors with this development.	Yes
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	There is potential for cumulative Socio-economics, Recreation and Tourism effects from construction workforce availability.	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.10 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Peartree Solar (EN010157) (ID 415)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same LCT (LCT 16 Sloping Farmland) and within the same visual receptor area (Woodmansey parish) and could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Possible shared receptors, such as protected species, due to the distance between this development and the Project.	Yes
Ornithology	Yes	Yes	Yes	Yes – Possible shared receptors, such as protected species, due to the distance between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in any physical impacts on heritage assets that fall within the Project. The nature and proximity of this development, however, means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	Yes	Yes	n/a	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				associated with the construction of the Project. This includes A1079.	
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors associated with this development	No
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	There is potential for cumulative Socio-economics, Recreation and Tourism effects from construction workforce availability.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, Socio-economics; Socio-economics, Recreation and Tourism; Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments	Yes

Table 2.11 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Steeples Renewables (EN010163) (ID 17)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same RLCT (RLCT 4a Unwooded Vales) and within the same visual receptor area (Sturton le Steeple parish) could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors including designated sites and protected species, due to the spatial overlap of this development and the Project.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors and pathways due to the distance between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is likely to result in physical impacts on heritage assets that fall within the Project. Likewise, the nature and proximity of this development means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	Yes	Yes	Yes	Some common receptors (Wheatley Beck and tributaries) however, legislation and planning requires new development to control and mitigate impacts on the water environment, including flood risk during both construction and operation. Therefore, cumulative adverse effects in relation to the water environment are unlikely.	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A1631, A620, A57 and a number of local roads.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects. Additionally, there is the potential for cumulative effects as a result of construction dust and NRMM emissions.	Yes
Noise and Vibration	Yes	Yes	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.12 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA White Hall Solar Farm with Battery Storage (22/03070/EIASCR) (ID 24)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same LCT (LCT16 Sloping Farmland) and visual receptor area (Woodmansey parish), the scale of White Hall Solar Farm and intervening vegetation means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	No – location and nature of this development is unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	Yes – potential for shared receptors (species and designated sites) due to proximity of this development	No
Cultural Heritage	Yes	Yes	Yes	The Development is unlikely to result in any physical impacts on heritage assets that fall within the Project. Likewise, the nature and distance of the Development, mean that it is unlikely that cumulative impacts on the setting of heritage assets will arise.	No
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to the location of this development, it is unlikely to have a significant effect.	No
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with the Development and Project.	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	No	No	n/a	No	No

Table 2.13 – Matrix Summarising Stage 1 and 2 of the Inter-Project Phase 2 Melton West Business Park (22/03461/EIASCR) (ID 25)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same LCT (LCT11 Jurassic Hills Farmland), the Development location within an existing industrial area means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	No – location, scale and nature of this development is unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	No. Location, scale and nature of this development is unlikely to have a significant cumulative effect	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A63.	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.14 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Solar Farm, Carr Plantation (21/03804/EIASCR) (ID 34)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although within the ZOI, this development and the Project are not located within any of the same landscape character areas or visual receptors areas and due to distance is unlikely to have a significant cumulative effect.	No
Ecology	Yes	Yes	Yes	No – location, nature and scale of this development unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	No. Location, nature and scale of this development unlikely to have a significant cumulative effect	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to the location of this development, it is unlikely to have a significant cumulative effect.	No
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with the Development.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	No	No	n/a	n/a	n/a

Table 2.15 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Solar Farm, Cottingham Water Pumping Station (21/01875/EIASCR) (ID 36)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although within the ZOI, this development and the Project are not located within any of the same landscape character areas or visual receptors areas and due to distance and intervening vegetation is unlikely to have a significant cumulative effect.	No
Ecology	Yes	Yes	Yes	Yes – possible shared receptors, including designated sites and protected species.	Yes
Ornithology	Yes	Yes	Yes	Yes, possible shared receptors, including designated sites and protected species.	No
Cultural Heritage	Yes	Yes	Yes	The Development is unlikely to result in any physical impacts on heritage assets that fall within the Project. Likewise, the nature and distance of the Development means that there is unlikely to be cumulative impacts on the setting of heritage assets also assessed as part of the Project.	No
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes A1079 and A164.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.16 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Energy from Waste Facility, South Melton (21/01520/EIASCR) (ID 38)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	n/a	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	No
Ecology	Yes	Yes	Yes	No – Although the Humber Estuary SAC/Ramsar/SPA is a likely shared receptor, the nature and scale of this development is unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors, such as designated sites and protected species. Potential for disturbance of SPA qualifying species.	Yes
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A63.	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.17 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Wind Energy Development, Melton Bottom Quarry (19/03585/EIASCR) (ID 54)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same LCT (LCT12: Sloping Wooded Farmland) and could affect surrounding visual receptor areas and could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Possible shared receptors, such as designated sites.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors, such as protected species and designated sites due to the distance of this development and the Project.	Yes
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A63.	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within Air Quality; Landscape and Visual; and Traffic and Transport. The Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.18 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, 49.5MW Battery Storage Scheme, Cottingham (18/02918/EIASCR) (ID 60)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Landscape No – Although this development and the Project are in close proximity, they are not located within the within the same landscape character area and the location within an existing industrial area means it is unlikely to have significant cumulative effects to landscape receptors. Visual Yes – Both this development and the Project area located within the same visual receptor area (Skidby parish) could result in significant cumulative visual effects.	Yes – visual only
Ecology	Yes	Yes	Yes	Possible shared receptors such as protected species due to the distance between this development and the Project.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors and pathways such as protected species due to the distance between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in any physical impacts on heritage assets that fall within the Project. The nature and proximity of the Continental Link Multi–Purpose Interconnector development (see ID 2), however, means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	No	No	n/a	n/a	n/a

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A1079.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	Yes	Yes	tbc	This development will generate noise. This has cumulative effect with the proposed substation of the Project. But the effect is unknown.	Yes
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.19 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Melton plant wind project- Erection of 3 Wind Turbines, Omya UK Limited (22/01302/CME) (ID 68)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same LCT (LCT13: Open High Rolling Farmland) and could affect surrounding visual receptor areas and could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors, including designated sites and protected species.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors and pathways such as protected species due to the distance between this development and the Project.	Yes
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A63.	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.20 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Scotland England Green Link 2, Drax Power Station (A) (22/01990/STPLFE) (ID 69)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	n/a	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	n/a
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors, such as the Humber Estuary designated sites.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors and pathways such as designated sites and protected species.	Yes
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the M62.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				associated with the construction of the Project. This could result in cumulative air quality effects.	
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.21 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA 102 Dwellings, Woodmansey (22/02152/STREM) (ID 95)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same LCT (LCT16 Sloping Farmland) and visual receptor area (Woodmansey parish), the nature of this development and its location on the edge of Beverley means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	No, scale and nature of development unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	No. Location, scale and nature of development unlikely to have a significant cumulative effect.	No
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in any physical impacts on heritage assets that fall within the Project. Likewise, the nature and distance of the residential development means that there is also unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A1079 and A164.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with the residential development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.22 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Creyke Beck Solar Farm (21/02335/STPLF) (ID 126)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same LCT (LCT16: Sloping Farmland) and within the same visual receptor area (Rowley parish) could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors, including designated sites, notable habitats and protected species.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptor such as designated sites and protected species due to the distance between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is likely to result in physical impacts on heritage assets that fall within the Project. The nature and proximity of this development also means that there is the possibility for cumulative effects on the setting of heritage assets assessed as part of the Project.	Yes
Water Environment	Yes	Yes	Yes	Partly located in common hydrological catchment however, legislation and planning require new development to control and mitigate impacts on the water environment, including flood risk during both construction and operation. Therefore, cumulative adverse effects in relation to the water environment are unlikely.	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				hydrogeology are unlikely. Furthermore, each development will be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A1079 and A164.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	Yes	Yes	TBC	The proposed battery storage and substation of this development will generate noise. This has cumulative effect with the proposed substation of the Project. But the effect is unknown.	Yes
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.23 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Construction of Relief Road and Erection of Industrial Unit (22/02118/STPLFE) (ID 132)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	n/a	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	n/a
Ecology	Yes	Yes	Yes	No -scale and nature of development unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	Yes – potential for shared receptors (qualifying species of designated sites).	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the M62.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				associated with the construction of the Project. This could result in cumulative air quality effects.	
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with the industrial development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.24 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Erection of a building for Vertical Farming, Land South of Woodmansey (22/01546/STPLF) (ID 148)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same LCT (LCT16 Sloping Farmland) and visual receptor area (Woodmansey parish), the nature of this development and its location within existing built up areas means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	No – scale and nature of development unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	No, Location and nature of development unlikely to have a significant cumulative effect.	No
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in any physical impacts on heritage assets that fall within the Project‘s ZOI. Likewise, the nature and distance of this development means there is also unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to the location and scale of this development, significant cumulative effects are unlikely.	No
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with the farm development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	No	No	n/a	n/a	n/a

Table 2.25 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Erection of a Building(s), Wyke Way Melton (22/03550/STPLF) (ID 155)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although within the ZOI, this development and the Project are not located within any of the same landscape character areas or visual receptors areas and the nature of this development at this distance is unlikely to result in significant cumulative landscape or visual effects	No
Ecology	Yes	Yes	Yes	Scale and nature of development unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	No. Location, scale and nature of development unlikely to have a significant cumulative effect if one building.	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A63.	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	n/a
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.26 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, H2H Saltend (23/02216/CME) (ID 304)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	n/a	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	n/a
Ecology	Yes	Yes	Yes	No – Although the Humber Estuary SAC/Ramsar/SPA is a likely shared receptor, the nature and scale of this development is unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	Yes – relevant shared receptors and pathways such as designated sites and protected species. Proximity to Humber Estuary SPA and SSSI.	Yes
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to nature of development, significant cumulative effects are unlikely.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	No	No	n/a	n/a	n/a
Climate Change	No	No	n/a	n/a	n/a

Table 2.27 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Albanwise BESS Battery Storage Facility, Cottingham (23/03926/STPLF) (ID 329)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Landscape No – Although this development and the Project are in close proximity, they are not located within the within the same landscape character area and the location on the edge of an existing industrial area means it is unlikely to have significant cumulative effects to landscape receptors. Visual Yes – Both this development and the Project area located within the same visual receptor area (Skidby parish) could result in significant cumulative visual effects.	Yes – visual only
Ecology	Yes	Yes	Yes	Yes – Possible shared receptors including protected species, due to the distance between this development and the Project.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors and pathways such as protected species.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in any physical impacts on heritage assets that fall within the Project. Likewise, the nature of this development, adjacent to existing power infrastructure, means that there is also unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	No	No	N/A	N/A	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	No
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A164.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	Yes	Yes	Yes	This development will generate noise. This has cumulative effect with the proposed substation of the Project.	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.28 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Wind Turbine, Raywel (23/03527/PLF) (ID 330)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same LCT (LCT13: Open High Rolling Farmland) and may affect views from surrounding visual receptors areas (Rowley parish and Skidby parish) and could result in significant cumulative landscape and visual effects	Yes
Ecology	Yes	Yes	Yes	Yes – Possible shared receptors including protected species, due to the distance between this development and the Project.	Yes
Ornithology	Yes	Yes	Yes	Yes – Shared receptors and pathways such as protected species due to the distance between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in physical impacts on heritage assets that fall within the Project. The nature and proximity of this development, however, means that there is the possibility for cumulative effects on the setting of heritage assets assessed as part of the Project.	Yes
Water Environment	Yes	Yes	Yes	The nature of this development is such that significant effects on the water environment have not been identified. In addition, legislation and planning require new development to control and mitigate impacts and so cumulative adverse effects in relation to the water environment are unlikely.	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources have not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative impact	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes local roads.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	Yes	Yes	TBC	This development may have cumulative noise effect; however, it is not yet known.	Yes
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.29 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA: Erection of buildings to accommodate employment use development (24/01608/STOUTE) (ID 473)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	n/a	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	n/a
Ecology	Yes	Yes	Yes	No – Although the Humber Estuary SAC/Ramsar/SPA is a likely shared receptor, the nature and scale of this development is unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	Yes – The location, scale and nature of this development may have a significant cumulative effect due to potential impacts on shared receptors (designated sites and their qualifying species).	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A161 and M62.	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.30 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Erection of 130 dwellings, Beverley (24/02518/STREM) (ID 497)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same LCT (LCT16 Sloping Farmland) and visual receptor area (Woodmansey parish), the nature of this development and its location on the edge of Beverley means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	No – scale and nature of development unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	No – Location, scale and nature of development unlikely to have a significant cumulative effect.	No
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in physical impacts on heritage assets that fall within the Project. Likewise, the nature and distance of this development means that there is unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A1079 and A164.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with the residential development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.31 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Creyke Beck Substation (Wanless Beck 400 kV substation(extension) / Birkhill Wood 400kV substation) (23/02315/EIASCR) (ID 509)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same LCT (LCT16: Sloping Farmland) and within the same visual receptor area (Skidby parish) could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Shared receptors, including protected species due to the spatial overlap of this development and the Project.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors and pathways such as protected species and designated sites.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is likely to result in physical impacts on heritage assets that fall within the Project. The nature and proximity of this development also means that there is the possibility for cumulative effects on the setting of heritage assets assessed as part of the Project.	Yes
Water Environment	Yes	Yes	Yes	Proposed Watercourse Diversion at Birkhill Wood substation to enable access, Shared receptors, including protected species due to the spatial overlap of this development and the Project.	Yes
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A1079 and A164.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	Yes	Yes	Yes	This development will generate noise, but the cumulative effect with the Project is unclear at present.	Yes
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on local communities affected by severance.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.32 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA 400kV Gas Insulated Substation, Cottingham (23/02638/EIASCR) (ID 510)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same LCT (LCT16: Sloping Farmland) and within the same visual receptor area (Woodmansey parish) could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Possible shared receptors including protected species, due to the likely spatial overlap of this development and the Project.	Yes
Ornithology	Yes	Yes	Yes	Yes – Possible shared receptors including protected species, due to the likely spatial overlap of this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in physical impacts on heritage assets that fall within the Project. The nature and proximity of this development, however, means that there is the possibility for cumulative effects on the setting of heritage assets assessed as part of the Project.	Yes
Water Environment	Yes	Yes	Yes	Located in a common hydrological catchment however, significant cumulative effects on the water environment are not anticipated given that legislation and policy require that development controls and mitigates any impacts.	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				hydrogeology are unlikely. Furthermore, each development will be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A1079 and A164.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects. Additionally, there is the potential for cumulative effects as a result of construction dust, as this development is within the construction dust study area of the Project.	Yes
Noise and Vibration	Yes	Yes	Yes	This development will generate noise. This has cumulative effect with the proposed substation of the Project. But the effect is at present unknown.	Yes
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.33 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA: Erection of 10 industrial units, Crowle (PA/2022/1262) (ID 187)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same LCT (LCT17 Flat Wooded Farmland) and visual receptor area (Crowle and Ealand parish), the location within an existing industrial area means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors, including designated sites and protected species. Yes – Relevant shared receptors and impact pathways due to proximity of development and shared receptors (designated sites and protected species).	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors and impact pathways due to proximity of development and shared receptors (designated sites and protected species).	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in physical impacts on heritage assets that fall within the Project. Likewise, the nature and distance of this development means that there is unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	Yes	Yes	Yes	Common hydrological catchment however, significant cumulative effects on the water environment are not anticipated given the small-scale nature of this development and that legislation and policy require that development controls and mitigates any impacts.	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes		This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes a number of local roads.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects. Additionally, there is the potential for cumulative effects as a result of construction dust, as this development is within the construction dust study area of the Project.	Yes
Noise and Vibration	Yes	Yes	TBC	There are no shared noise sensitive receptors with this development	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.34 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Keadby Solar Farm 49.9MW (PA/SCR/2021/8) (ID 190)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same LCT (LCT: Trent Levels Flat Drained Farmland) may affect views from surrounding visual receptors areas (Crowle and Ealand, Eastoft, Amcotts and Belton) and could result in significant cumulative landscape and visual effects	Yes
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors, including designated sites and protected species.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors and pathways due to designated sites and protected species and distance between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in physical impacts on heritage assets that fall within the Project. The nature and proximity of this development, however, means that there is the possibility for cumulative effects on the setting of heritage assets assessed as part of the Project.	Yes
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes local roads.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.35 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Ealand Solar Farm 49.9MW (PA/SCR/2021/7) (ID 191)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same LCT (LCT: Trent Levels Flat Drained Farmland) and within the same visual receptor area (Crowle and Ealand parish) could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Overlap in boundaries and shared receptors.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors and pathways and overlap in project boundaries.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is likely to result in physical impacts on heritage assets that fall within the Project's draft Order Limits. Likewise, the nature and proximity of this development means that there is also the possibility for cumulative effects on the setting of heritage assets assessed as part of the Project.	Yes
Water Environment	Yes	Yes	Yes	Located in a common hydrological catchment however, significant cumulative effects on the water environment are not anticipated given that legislation and policy require that development controls and mitigates any impacts.	No
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes local roads.	Yes
Air Quality	Yes	Yes	Yes .	Yes – Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects. Additionally, there is the potential for cumulative effects as a result of construction dust, as this development is within the construction dust study area of the Project.	Yes
Noise and Vibration	Yes	Yes	Yes	Yes – The nearest receptor is approximately 1km away from this project and 200 m from the Project.	Yes
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	No
Health and Wellbeing	Yes	Yes	Yes –	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.36 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, 599 Dwellings and lake, Scunthorpe (PA/2023/1124) (ID 310)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	n/a	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	No
Ecology	Yes	Yes	Yes	Yes – Possible shared receptors. However, it is the opposite side of the M181 and the River Trent to the Project, which will act as barriers to certain species.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors and pathways due to designated sites and protected species.	Yes
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the M181.	Yes
Air Quality	Yes	Yes	Yes	Yes – Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	No	n/a	n/a
Health and Wellbeing	Yes	No	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.37 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Keadby Power Station Haul Road, Trent Side, Keadby, Scunthorpe (PA/SCO/2023/3) (ID 313)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – This is a temporary development of which the size and scale is unlikely to have significant landscape and visual effects.	No
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors, including notable habitats, protected species and designated sites.	Yes
Ornithology	Yes	Yes	Yes	No. Location, scale and nature of development unlikely to have significant cumulative effect	No
Cultural Heritage	Yes	Yes	Yes	The construction of a temporary haul road within Keadby Power Station complex is unlikely to result in physical impacts on heritage assets that fall within the Project. Likewise, the nature and distance of the haul road means that there is unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				associated with the construction of the Project. This includes a number of local roads and the B1392.	
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects. Additionally, there is the potential for cumulative construction dust effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.38 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Battery Energy Storage System, Keadby (PA/SCR/2023/3) (ID 316)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Landscape No – Although this development and the Project are in close proximity, they are not located within the within the same landscape character area and the location within an existing industrial area means it is unlikely to have significant cumulative effects to landscape receptors. Visual Yes – Both this development and the Project may affect views from surrounding visual receptors areas (Crowle and Ealand, Eastoft, Amcotts and Belton) and could result in significant cumulative visual effects.	Yes – Visual only
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors including protected species, notable and designated habitats.	Yes
Ornithology	Yes	Yes	Yes	Yes – relevant shared receptors due to the close distance between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in any physical impacts on heritage assets that fall within the Project. The nature and proximity of this development, however, means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	No	No	n/a	n/a	n/a

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes a number of local roads and the B1392.	Yes
Air Quality	Yes	Yes	Yes	Yes – Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	n/a
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.39 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA 23 Caravan Pitches, Oak Tree Fishery (PA/2023/1831) (ID 366)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same LCT (LCT Trent Levels Flat Drained Farmland) and visual receptor area (Haxey parish), the size, scale and nature of this development means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors including protected species, and designated sites.	Yes
Ornithology	Yes	Yes	Yes	No. Location, scale and nature of development unlikely to have significant cumulative effect.	No
Cultural Heritage	No	No	No	n/a	No
Water Environment	No	No	No	n/a	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A161.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with the caravan pitch development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	No
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.40 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA 9 dwellings, Luddington (PA/2023/631) (ID 350)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same LCT (LCT Trent Levels Flat Drained Farmland) and visual receptor area (Luddington and Haldenby parish), the size, scale and nature of this development means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	No, scale and nature of development unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	No. Location, scale and nature of development unlikely to have a significant cumulative effect.	No
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in any physical impacts on heritage assets that fall within the Project. The nature and proximity of this development, however, means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	Yes	Yes	Yes	Common hydrological catchment however, significant cumulative effects on the water environment are not anticipated given the small-scale nature of this development and that legislation and policy require that development controls and mitigates any impacts.	No
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes local roads.	Yes
Air Quality	Yes	Yes	Yes	Yes – Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.41 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, 67 Dwellings, Crowle (PA/2023/1903) (ID 409)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same LCT (LCT Trent Levels Open Island Farmland) and visual receptor area (Crowle and Ealand parish), the size, scale and nature of this development and location on edge of existing settlement area means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	No – scale and nature of development unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	No – scale and nature of development unlikely to have a significant cumulative effect.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in any physical impacts on heritage assets that fall within the Project. Likewise, the nature and distance of this development also means that there is unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	No	No	N/A	N/A	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A161 and local roads	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	No
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected in chapters such as Air Quality, Socio-economics and Traffic and Transport; the health and wellbeing cumulative assessment is dependent on these chapters.	Yes

Table 2.42 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA 14 dwellings, Crowle (PA/2024/362) (ID 410)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same LCT (LCT Trent Levels Flat Drained Farmland) and visual receptor area (Crowle and Ealand parish), the size, scale and nature of this development and location within existing settlement area means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	No – scale and nature of development unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	No. Location, scale and nature of development unlikely to have a significant cumulative effect.	No
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in any physical impacts on heritage assets that fall within the Project. Likewise, the nature and distance of this development also means that there is unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A161.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	No	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.43 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, mixed use development, Epworth (PA/2024/513) (ID 469)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same LCT (LCT Trent Levels Open Island Farmland) and visual receptor area (Epworth parish), the size, scale and nature of this development on the edge of an existing settlement means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	No – despite a possible overlap of study areas and shared receptors (designated sites), the scale and nature of this development is unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	No. Scale and nature of this development is unlikely to have a significant cumulative effect.	No
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in any physical impacts on heritage assets that fall within the Project. Likewise, the nature and distance of this development also means that there is unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	Yes	Yes	Yes	Significant cumulative effects on the water environment are not anticipated given this development is on the outer boundary of the ZoI at its closest point and that legislation and policy require that development controls and mitigates any impacts.	No
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Agriculture and Soils	Yes	Yes	Yes	Despite the proximity of this development, the planning boundary consists of existing made ground and is therefore unlikely to have a cumulative effect.	No
Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A161.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.44 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Sand Lane Solar Farm (PA/SCR/2024/9) (ID 499)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	n/a	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	n/a
Ecology	Yes	Yes	Yes	No – location, nature and scale of this development unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	No. Location, nature and scale of this development unlikely to have a significant cumulative effect.	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the M180.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Likely cumulative effects are expected within Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on this chapter.	Yes

Table 2.45 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Solar Farm 45.4MW (21/01634/SCR) (ID 262)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	n/a	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	n/a
Ecology	Yes	Yes	Yes	No – approximately 6.8 km from the NHHM scheme and the scale and nature of this development are unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	No. Location of this development makes it unlikely to have a significant cumulative effect.	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to the location of this development, significant cumulative effects are unlikely.	

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	No	No	n/a	n/a	n/a

Table 2.46 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Battery Energy Storage System (West Burton BESS), Gainsborough (22/01713/FUL) (ID 275)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same RLCT (RLCT 4a: Unwooded Vales) and within the same visual receptor area (Bole parish) could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors, including designated sites and protected species.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared pathways due to distance between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in any physical impacts on heritage assets that fall within the Project. The nature and proximity of this development, however, means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	No	No	N/A	N/A	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will be bound by its own CoCP, and in turn a CEMP where	No

				applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes local roads.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on local communities affected by severance.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.47 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, (West Burton) Power Station Demolition (22/01219/SCR) (ID 276)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same RLCT (RLCT 3a: Floodplain Valleys Sloping Farmland) and within the same visual receptor area (West Burton parish) could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Potential shared receptors, including designated sites and protected species.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors including designated sites and protected species.	Yes
Cultural Heritage	Yes	Yes	Yes	The demolition of this development is unlikely to result in any physical impacts on heritage assets that fall within the Project. The nature and proximity of the demolition, however, means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	Yes	Yes	Yes	Despite the proximity of the demolition, the nature of this work means it is unlikely to have any cumulative effect.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				associated with the construction of the Project. This includes local roads.	
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on local communities affected by severance.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.48 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Solar Photovoltaic West of Sturton Road Bole (21/00737/SCR) (ID 280)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same RLCT (RLCT 4a Unwooded Vales) and within the same visual receptor area (Bole parish) could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Shared receptors and overlap of boundaries.	Yes
Ornithology	Yes	Yes	Yes	Yes – Shared receptors and overlap of boundaries.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is likely to result in physical impacts on heritage assets that fall within the Project. Likewise, the nature and proximity of this development means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	Yes	Yes	Yes	Located in a common hydrological catchment however, significant cumulative effects on the water environment are not anticipated given the nature of this development and that legislation and policy requires that development controls and mitigates any impacts.	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes local roads.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects. Additionally, there is the potential for cumulative effects as a result of construction dust and NRMM emissions.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.49 Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, 8 MW Green Hydrogen Production Plant, High Marnham Power Station Power Station (23/01135/FUL) (23/00801/FUL -related and granted) (ID 334)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same RLCT (RLCT 3a: Floodplain Valleys) and within the same visual receptor area (Marnham parish) could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors such as designated sites and protected species.	Yes
Ornithology	Yes	Yes	Yes	Yes – Likely shared relevant receptors such as designated sites and species; and proximity of Project.	Yes
Cultural Heritage	Yes	Yes	Yes	The Green Hydrogen Production Plant at High Marnham is unlikely to result in physical impacts on heritage assets that fall within the Project. Intervening vegetation and power infrastructure means that there is also unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	No	No	N/A	N/A	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes local roads.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	Yes	Yes	Yes	The proposed hydrogen production plan will generate noise. This will have cumulative effect with the New High Marnham substation.	Yes
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on local communities affected by severance.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.50 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Erecting of Unit A and B at Former High Marnham Power Station (22/01071/FUL) (ID 288)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same RLCT (RLCT 3a: Floodplain Valleys) and within the same visual receptor area (Marnham parish). Although not energy development, there may be views from PRoW which could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors, including designated sites and protected species.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors due to the distance between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in physical impacts on heritage assets that fall within the Project. Intervening vegetation and power infrastructure means that there is also unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	Yes	Yes	Yes	Located in a common hydrological catchment however, significant cumulative effects on the water environment are not anticipated given the nature of this development and that legislation and policy requires that development controls and mitigates any impacts.	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	Despite the proximity of this development, the planning boundary consists of existing made ground and is therefore unlikely to have a cumulative effect.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes local roads.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects. Additionally, there is the potential for cumulative effects as a result of construction dust.	Yes
Noise and Vibration	Yes	Yes	Yes	Cumulative effect is likely. The proposal may increase the operational noise impact.	Yes
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected in chapters such as Air Quality, Socio-economics and Traffic and Transport; the health and wellbeing cumulative assessment is dependent on these chapters.	Yes

Table 2.51 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA High Marnham solar farm, (22/00707/FUL) (ID 289)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same RLCT (RLCT 3a: Floodplain Valleys) and within the same visual receptor area (Marnham parish) could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Shared receptors, overlap in boundaries.	
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors due to the overlap in boundaries between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is likely to result in physical impacts on heritage assets that fall within the Project. Likewise, the nature and proximity of this development means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	Yes	Yes	Yes	Located in a common hydrological catchment however, significant cumulative effects on the water environment are not anticipated given the nature of this development and that legislation and policy requires that development controls and mitigates any impacts.	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes local roads.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	Yes	Yes	Yes	The proposed substation within this development will generate noise, but the cumulative effect is unclear.	Yes
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.52 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Tuxford Road – Solar Farm, Land North and South Tuxford Road Skegby (21/00376/SCR) (ID 292)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same RLCT (RLCT 3a: Floodplain Valleys) and within the same visual receptor area (Marnham parish) could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same RLCT (RLCT 3a: Floodplain Valleys) and within the same visual receptor area (Marnham parish) could result in significant cumulative landscape and visual effects.	No
Ornithology	Yes	Yes	Yes	No - the location, scale and nature of this development unlikely to have a significant cumulative effect	No
Cultural Heritage	Yes	Yes	Yes	No. Location, scale and nature of this development unlikely to have a significant cumulative effect.	Yes
Water Environment	No	No	n/a	This development is likely to result in physical impacts on heritage assets that fall within the Project. Likewise, the nature and proximity of this development means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to the location of this development, significant cumulative effects are unlikely.	No
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Likely cumulative effects are expected within Landscape and Visual; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.53 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Professional Services Centre, 55 Units (23/00677/FUL) (ID 320)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same visual receptor area (Walkeringham parish), the size, scale and nature of this development and location within an existing settlement means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	No – scale and nature of this development unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors due to designated sites and protected species.	Yes
Cultural Heritage	Yes	Yes	Yes	The Professional Services Centre development in Walkeringham is unlikely to result in physical impacts on heritage assets that fall within the Project. Likewise, the nature and distance of this development mean that there is unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the B1403 and A631.	Yes
Air Quality	Yes	Yes	Yes –	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.54 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, 39 Dwellings Beckingham (23/00746/FUL) (ID 321)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although within the ZOI, this development and the Project are not located within any of the same landscape character area. Both this development and the Project are located within the same visual receptor area (Beckingham parish) but due to the nature of this development and location on the edge of the existing settlement it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	No – scale and nature of this development is unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	No. Scale and nature of this development is unlikely to have a significant cumulative effect.	No
Cultural Heritage	Yes	Yes	Yes	The residential development in Beckingham is unlikely to result in physical impacts on heritage assets that fall within the Project Likewise, the nature and distance of this development mean that there is unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	Yes	Yes	Yes	Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A161 and B1403.	Yes
Air Quality	Yes	Yes	Yes .	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.55 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Prototype Facility for the Production of Hydrogen from Ammonia, High Marnham (23/01135/FUL) (ID 334)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same RLCT (RLCT 3a: Floodplain Valleys) and within the same visual receptor area (Marnham parish). Although not energy development, there may be views from PRoW which could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Possible shared receptors, such as designated sites and protected species.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors and pathways due to the overlap between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	The prototype hydrogen production facility at High Marnham is unlikely to result in physical impacts on heritage assets that fall within the Project. Intervening vegetation and power infrastructure means that there is also unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	No	No	N/A	N/A	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	Despite the proximity of this development, the planning boundary consists of existing made ground and is therefore unlikely to have a cumulative effect.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes local roads.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	Yes	Yes		The proposed hydrogen production plan will generate noise. This will have cumulative effect with the New High Marnham substation. Potential for cumulative Socio-economics, Recreation and Tourism effects on local communities affected by severance.	Yes
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative socio-economic, tourism and recreation effects on local communities affected by severance.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	

Table 2.56 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, 400 KV Substation High Marnham Green Energy Park (23/01519/SCR) (ID 337)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same RLCT (RLCT 3a: Floodplain Valleys) and within the same visual receptor area (Marnham parish) which could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Overlap in boundaries and shared receptors.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors and pathways due to overlap in project boundaries.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in physical impacts on heritage assets that fall within the Project. Intervening vegetation and power infrastructure means that there is also unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	Yes	Yes	Yes	The nature of this development is such that significant effects on the water environment, including flood risk, are not anticipated and significant cumulative effects would be unlikely as legislation and planning require new development to control and mitigate impacts.	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will be bound by its own CoCP, and in turn a CEMP where	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes local roads.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects. Additionally, there is the potential for cumulative effects as a result of construction dust and NRMM emissions.	Yes
Noise and Vibration	Yes	Yes	Yes	This development will generate noise and may have cumulative effect with the Project. Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.57 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA 7 Dwellings with Garages, East Drayton (24/00167/RES) (ID 352)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same RLCT (RLCT 4a Unwooded Vales) and visual receptor area (East Drayton parish), the size, scale and nature of this development and location on the edge of the settlement area means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	No – possible shared receptors. Although, the relatively small scale of this development is unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	No – relevant shared receptors due to distance between the two projects but due to small scale of project and location on edge of existing settlement mitigates potential for cumulative effects.	No
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in any physical impacts on heritage assets that fall within the Project. The nature and proximity of the residential development, however, means there is the possibility for cumulative impacts on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	Yes	Yes	Yes	The small scale and nature of this development is such that no significant effects on the water environment are anticipated and there would be no significant cumulative effects given that legislation and planning require new development to control and mitigate impacts on the water environment, including flood risk and drainage.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	No
Agriculture and Soils	Yes	Yes		This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A57.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects. Additionally, there is the potential for cumulative effects as a result of construction dust and NRMM emissions.	Yes
Noise and Vibration	Yes	Yes	Yes	Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				associated with the construction of the Project. Cumulative construction noise effect is likely.	
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.58 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Widened Access Road and Vehicle Parking Area High, Marnham Power Station (22/01689/FUL) (ID 466)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same LCT (LCT Trent Levels Flat Drained Farmland) and visual receptor area (Marnham parish), the size, scale and nature of this development means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	Yes – Possible shared receptors due to an apparent overlap in boundaries.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors due to an overlap in project boundaries.	Yes
Cultural Heritage	Yes	Yes	Yes	The proposed access road and parking area at High Marnham is unlikely to result in physical impacts on heritage assets that fall within the Project. Intervening vegetation and power infrastructure means that there is also unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	Yes	Yes	Yes	The small scale and nature of this development is such that no significant effects on the water environment are anticipated and there would be no significant cumulative effects given that legislation and planning require new development to control and mitigate impacts on the water environment, including flood risk and drainage.	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	Despite the proximity of this development, the planning boundary consists of existing made ground and is therefore unlikely to have a cumulative effect.	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes local roads.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects. Additionally, there is the potential for cumulative effects as a result of construction dust and NRMM emissions.	Yes
Noise and Vibration	Yes	Yes	Yes	This development will generate noise and may have cumulative effect with the Project.	Yes
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.59 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Proposed Erection of 3 Modular Buildings, J G Pears (Newark) Limited (20/00817/FUL) (ID 472)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same RLCT (RLCT 3a Floodplain Valleys) and visual receptor area (Marnham parish), the size, scale and nature of this development and location within existing settlement means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	No – scale and nature of this development unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	No. location, scale and nature of this development unlikely to have a significant cumulative effect.	No
Cultural Heritage	Yes	Yes	Yes	The proposed modular building development at Low Marnham is unlikely to result in physical impacts on heritage assets that fall within the Project. Intervening vegetation and distance means that there is also unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	n/a

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	Yes	Yes	Yes	Yes - Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes local roads.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.60 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Trent BESS Battery Energy Storage System, Rampton (24/00692/SCR) (ID 482)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same RLCT (RLCT 3a: Floodplain Valleys) and within the same visual receptor area (Rampton and Woodbeck parish) could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	No – scale and nature of this development unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	No. location, scale and nature of this development unlikely to have a significant cumulative effect.	No
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in physical impacts on heritage assets that fall within the Project. The nature and distance also means that there is unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	No	No	N/A	N/A	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes local roads	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	No
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.61 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Crabtree Lane Battery Energy Storage System, Skegby (24/01138/FUL) (ID 500)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same RLCT (RLCT 4a: Unwooded Vales) and within the same visual receptor area (Marnham parish) could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors including designated sites and protected species, due to the spatial overlap of this development and the Project.	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors due to overlap between this development and the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is likely to result in physical impacts on heritage assets that fall within the Project. Likewise, the nature and proximity of this development means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	Yes	Yes	Yes	The nature of this development is such that significant effects on the water environment are not anticipated. In addition, legislation and planning require that new development controls and mitigates impacts on the water environment including flood risk and drainage, such that no significant cumulative effects are likely.	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A57 and local roads	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality; Socio-economics, Recreation and Tourism; and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.62 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Refrigeration Plant, Symmetry Park (24/00647/FUL) (ID 501)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	n/a	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	n/a
Ecology	Yes	Yes	Yes	No – location, scale and nature of this development unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	No. Location, scale and nature of this development unlikely to have a significant cumulative effect.	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects	No
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to nature, scale and location of this development, significant air quality effects are unlikely.	No
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	No	No	n/a	n/a	n/a
Climate Change	No	No	n/a	n/a	n/a

Table 2.63 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, 12 Leisure Holiday Caravans, Walkeringham (24/01161/FUL) (ID 502)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same RLCT (RLCT 4a Unwooded Vales) and visual receptor area (Walkeringham parish), the size, scale and nature of this development means it is unlikely to have significant cumulative effects to landscape or visual receptors.	No
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors including designated sites (e.g. Chesterfield Canal).	Yes
Ornithology	Yes	Yes	Yes	Yes – Relevant shared receptors and pathways due to designated sites and protected species.	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in any physical impacts on heritage assets that fall within the Project. The nature and proximity of this development, however, means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the B1403.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	Potential for cumulative socio-economic, tourism and recreation effects on local communities affected by severance.	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.64 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Development of 24 Dwellings, Hayton (24/00951/OUT) (ID 503)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although within the ZOI, this development and the Project are not located within any of the same landscape character areas or visual receptors areas and due to distance and location to the west of Hayton is unlikely to have a significant cumulative effect.	No
Ecology	Yes	Yes	Yes	No – scale and nature of development unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	No. Location, scale and nature of this development unlikely to have a significant cumulative effect.	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects	No
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to nature and location of this development, significant effects are unlikely.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	No	No	n/a	n/a	n/a
Climate Change	Yes	Yes	Yes	No	No

Table 2.65 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Erection of 95 Dwellings. Retford (24/00565/FUL) (ID 504)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	n/a	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	n/a
Ecology	Yes	Yes	Yes	No. The scale and nature of this development is unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	No. Location, scale and nature of this development is unlikely to have a significant cumulative effect.	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A638 and local roads.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.66 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Residential Development of 100 Dwellings, Saxilby (147672) (ID 385)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	n/a	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	n/a
Ecology	Yes	Yes	Yes	No – location, scale and nature of this development is unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	No. Location, scale and nature of this development is unlikely to have a significant cumulative effect	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects	No
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to location of development, significant effects are unlikely.	No
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	No	No	n/a	n/a	n/a
Climate Change	Yes	Yes	Yes	No	No

Table 2.67 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Demolishment and Erection of 64 dwellings, Gainsford (143821) (ID 388)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although within the ZOI, this development and the Project are not located within any of the same landscape character areas or visual receptors areas and due to distance and location within the built-up area of Gainsborough is unlikely to have a significant cumulative effect.	No
Ecology	Yes	Yes	Yes	No – location, scale and nature of this development is unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	No. Location, scale and nature of development unlikely to have significant cumulative effects.	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects	No
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to the location of this development, significant effects are unlikely.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	No	No	n/a	n/a	n/a

Table 2.68– Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Proposed Solar Farm. Gainsborough. (WL/2024/00796) (ID 505)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	n/a	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	n/a
Ecology	Yes	Yes	Yes	No – distance, scale and nature of development unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	No – Location, scale and nature of development unlikely to have a significant cumulative effect.	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects	No
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to location of development, significant effects are unlikely.	No
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	No	No	n/a	n/a	n/a

Table 2.69 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Erection of an Extra Care Home. Gainsborough (WL/2024/00817) (ID 506)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although within the ZOI, this development and the Project are not located within any of the same landscape character areas or visual receptors areas and due to distance and location within the built-up area of Gainsborough is unlikely to have a significant cumulative effect.	No
Ecology	Yes	Yes	Yes	No – scale and nature of this development is unlikely to have significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	No – Scale and nature of this development is unlikely to have significant cumulative effect.	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects	No
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to the location of this development, significant effects are unlikely.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	No	No	n/a	n/a	n/a

Table 2.70 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, the Erection of 64 Affordable Homes with Amendments to the existing access from Heapham Road (WL/2024/00689) (ID 507)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although within the ZOI, this development and the Project are not located within any of the same landscape character areas or visual receptors areas and due to distance and location within the built-up area of Gainsborough is unlikely to have a significant cumulative effect.	No
Ecology	Yes	Yes	Yes	No – scale and nature of this development is unlikely to have significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	No. Location, scale and nature of development unlikely to have a significant cumulative effect.	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects	No
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to location of development, significant effects are unlikely.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	No	No	n/a	n/a	n/a

Table 2.71 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, the Erection of 450 Dwellings. Bracebridge Heath (24/0841/RESM) (ID 493)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	No	No	n/a	Not likely to have a significant cumulative effect due to lack of shared receptors and distance between this development and the Project.	n/a
Ecology	Yes	Yes	Yes	No – due to distance from the Project	No
Ornithology	Yes	Yes	Yes	No – due to distance from the Project	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects	No
Traffic and Transport	No	No	n/a	n/a	n/a
Air Quality	No	No	n/a	Due to location of development, significant effects are unlikely.	No
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	No	No	n/a	n/a	n/a

Table 2.72 – Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Solar Farm and Battery Storage Facility, Weston (22/SCR/00003) (ID 458)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located within the same RLCT (RLCT 4a Unwooded Vales) and visual receptor area (Weston parish), the distance from the Project and location between several existing overhead lines means it is unlikely to have significant cumulative effects to landscape or visual receptors	No
Ecology	Yes	Yes	Yes	Yes – Possible shared receptors, including protected species.	Yes
Ornithology	Yes	Yes	Yes	Yes – Possible shared receptors, including protected species.	Yes
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes local roads.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Traffic and Transport; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.73– Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Residential Development of 214 Homes, Kingston Upon Hull (19/01511/FULL) (ID 422)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although within the ZOI, this development and the Project are not located within any of the same landscape character areas or visual receptors areas, and due to distance and location on edge of existing settlement and adjacent an existing overhead line, is unlikely to have a significant cumulative effect.	No
Ecology	Yes	Yes	Yes	No- location and nature of this development is unlikely to have a significant cumulative effect.	No
Ornithology	Yes	Yes	Yes	No – Location and nature of this development is unlikely to have significant cumulative effect.	No
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to result in physical impacts on heritage assets that fall within the Project. Intervening vegetation, buildings and road infrastructure means that there is also unlikely to be cumulative impacts on the setting of heritage assets assessed as part of the Project.	No
Water Environment	No	No	n/a	n/a	n/a
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A1079.	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with this development	No
Socio-economics, Recreation and Tourism	No	No	n/a	n/a	n/a
Health and Wellbeing	Yes	Yes	Yes	No	No

Table 2.74 Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Oaks Lane Solar Farm (22/01477/SCR) (ID 255)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same RLCT (RLCT 4a: Unwooded Vales) and within the same visual receptor area (Marnham parish) could result in significant cumulative landscape and visual effects.	Yes
Ecology	Yes	Yes	Yes	Yes – likely shared receptors, including protected species, due to location of this development (part of this development lies adjacent to the Project).	Yes
Ornithology	Yes	Yes	Yes	This development may result in physical impacts on heritage assets that fall within the Project. The nature and proximity of this development means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Cultural Heritage	Yes	Yes	Yes	This development may result in physical impacts on heritage assets that fall within the Project. The nature and proximity of this development means there is the possibility for cumulative effects on the setting of heritage assets also assessed as part of the Project.	Yes
Water Environment	Yes	Yes		Shares common hydrological catchment but the nature of this development is such that adverse effects in relation to the water environment are unlikely. Furthermore, each development is required by legislation and planning policy to control and mitigate any effects on water environment receptors, flood risk and land drainage.	No
Geology and Hydrogeology	Yes	Yes	TBC	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	TBC	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A631.	Yes
Air Quality	Yes	Yes	TBC	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects. There is also the potential for cumulative effects as a result of NRMM and construction dust emissions.	Yes
Noise and Vibration	Yes	Yes	TBC	The noise from the proposed battery storage facilities will generate noise at NSRs. This may have cumulative effect with the noise from the proposed overhead lines.	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Landscape and Visual; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.75 Matrix Summarising Stage 1 and 2 of the Inter-Project CEA Proposed Residential development, (22/02569/EIASCO) (ID 18).

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although within the ZOI, this development and the Project are not located within any of the same landscape character areas or visual receptors areas and due to distance and location between existing areas of settlement is unlikely to have a significant cumulative effect.	No
Ecology	Yes	Yes	Yes	Yes – Likely shared receptors, including designated sites (e.g. the Humber Estuary designations).	Yes
Ornithology	Yes	Yes	Yes	Yes – Likely shared receptors, including designated sites (e.g. the Humber Estuary designations).	Yes
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to have physical impacts on heritage assets that fall within the Project. The distance and screening by modern housing means that the residential development is unlikely to result in cumulative impacts on the setting of heritage assets also assessed as part of the Project.	No
Water Environment	No	No	N/a	This development is located outside the ZOI for water environment and so significant cumulative effects are unlikely.	No
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	TBC	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				associated with the construction of the Project. This includes the A63.	
Air Quality	Yes	Yes	TBC	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with the residential development	No
Socio-economics, Recreation and Tourism	No	No	TBC	This development is located outside of the ZOI for socio-economics, recreation and tourism and therefore there is unlikely to be significant cumulative effects.	No
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Landscape and Visual; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.76 Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Proposed Residential Development (up to 120 dwellings) (22/03465/STOUT) (ID 72)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although within the ZOI, the scale and nature of this development within existing areas of settlement is unlikely to have a significant cumulative effect.	No
Ecology	Yes	Yes	Yes	The scale and nature of this development is unlikely to have a significant cumulative effect	No
Ornithology	Yes	Yes	Yes	No – The scale and nature of this development is unlikely to have a significant cumulative effect	No
Cultural Heritage	No	No	n/a	n/a	n/a
Water Environment	No	No	n/a	This development is located outside the ZOI for water environment and therefore significant cumulative effects are unlikely.	No
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects	No
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A63.	Yes

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Air Quality	Yes	Yes	TBC	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with the residential development	No
Socio-economics, Recreation and Tourism	No	No	TBC	This development is located outside of the ZOI for socio-economics, recreation and tourism and therefore there is unlikely to be significant cumulative effects.	No
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Landscape and Visual; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.77 Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Erection of an extension (Unit 19A) to existing manufacturing facility, construction of a new 540 space car park to service Unit 19A, and associated highway improvement works. (22/02744/STPLF) (ID 338)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	No – Although this development and the Project are located in close proximity, they are not located within the within the same landscape character area and the location within an existing industrial area means it is unlikely to have significant cumulative effects to landscape receptors.	No
Ecology	Yes	Yes	Yes	No – the scale and nature of this development is unlikely to have a significant effect	No
Ornithology	Yes	Yes	Yes	No – The scale and nature of this development is unlikely to have a significant cumulative effect	No
Cultural Heritage	Yes	Yes	Yes	This development is unlikely to have physical impacts on heritage assets that fall within the Project. The distance and screening by vegetation means that the industrial development is unlikely to result in cumulative impacts on the setting of heritage assets also assessed as part of the Project.	No
Water Environment	No	No	n/a	This development is located outside the ZOI for water environment, therefore there are unlikely to be significant cumulative effects.	No
Geology and Hydrogeology	No	No	n/a	This development is located outside the ZOI for Geology and Hydrogeology, therefore there is unlikely to be significant cumulative effects	No
Agriculture and Soils	No	No	n/a	This development is located outside of the ZOI for agriculture and soils, therefore there is unlikely to be significant cumulative effects.	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A1079.	Yes
Air Quality	Yes	Yes	TBC	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects.	Yes
Noise and Vibration	No	No	TBC	There are no shared noise sensitive receptors with the residential development	No
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Potential for cumulative Socio-economics, Recreation and Tourism effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land, PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected within chapters including Air Quality, and Landscape and Visual; the Health and Wellbeing cumulative assessment is dependent on these assessments.	Yes

Table 2.78 Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Hornsea Four Offshore Wind Farm, (EN010098) (ID 511)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same LCT (LCT16 Sloping Farmland) and within the same visual receptor areas (Skidby parish and Rowley parish).	Yes
Ecology	Yes	Yes	Yes	Yes - likely shared receptors e.g. protected species and designated sites	Yes
Ornithology	Yes	Yes	Yes	Yes – overlap of project boundaries means that there will be shared receptors (species and possibly designated sites).	Yes
Cultural Heritage	Yes	Yes	Yes	This development may result in physical impacts on heritage assets that fall within the Project. The nature and proximity of the energy project means that there is also the possibility for cumulative impacts on the setting of heritage assets assessed as part of the Project.	Yes
Water Environment	Yes	Yes	Yes	Whilst this development is located in a shared hydrological catchment, likely significant cumulative effects are not anticipated given the scale of this development and that policy and legislation act to drive the mitigation of impacts of development on water environment receptors and flood risk.	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A63, A1079 and the A164	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects. Additionally, there is the potential for cumulative effects as a result of construction dust and NRMM emissions due to the distance of this development from the Project.	Yes
Noise and Vibration	Yes	Yes	Yes	Construction activities for the cable connection may result in cumulative noise effect	Yes
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Yes - Potential for cumulative socio-economic, tourism and recreation effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land and PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected in chapters such as Landscape and Visual and Traffic and Transport; the health and wellbeing cumulative assessment is dependent on these chapters.	Yes

Table 2.79 Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Dogger Bank South Offshore Wind Farms (EN010125), (ID 512)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same LCT (LCT16 Sloping Farmland) and within the same visual receptor areas (Skidby parish and Woodmansey parish).	Yes
Ecology	Yes	Yes	Yes	Yes - project boundaries overlap, likely shared receptors e.g. protected species and designated sites	Yes
Ornithology	Yes	Yes	Yes	Yes – project boundaries overlap, therefore there will be shared receptors (species and possibly designated sites).	Yes
Cultural Heritage	Yes	Yes	Yes	This development may result in physical impacts on heritage assets that fall within this development. The nature and proximity of the energy project means that there is also the possibility for cumulative impacts on the setting of heritage assets assessed as part of this development.	Yes
Water Environment	Yes	Yes	Yes	Whilst this development is located in a shared hydrological catchment, likely significant cumulative effects are not anticipated given the scale of this development and that policy and legislation act to drive the mitigation of impacts of development on water environment receptors and flood risk.	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect.	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A63, A1079 and the A164	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects. Additionally, there is the potential for cumulative effects as a result of construction dust and NRMM emissions due to the distance of this development from the Project.	Yes
Noise and Vibration	Yes	Yes	Yes	Construction activities for the cable connection may result in cumulative noise effect.	Yes
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Yes - Potential for cumulative socio-economic, tourism and recreation effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land and PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected in chapters such as Noise and Vibration and Traffic and Transport; the health and wellbeing cumulative assessment is dependent on these chapters	Yes

Table 2.80 Matrix Summarising Stage 1 and 2 of the Inter-Project CEA, Dogger Bank D (EN010144), (ID 513)

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
Landscape and Visual	Yes	Yes	Yes	Yes – Both this development and the Project are located within the same LCT (LCT16 Sloping Farmland) and within the same visual receptor areas (Skidby parish and Woodmansey parish	Yes
Ecology	Yes	Yes	Yes	Yes – potential for overlap and therefore likely shared receptors e.g. protected species and designated sites.	Yes
Ornithology	Yes	Yes	Yes	Yes – project boundaries are immediately adjacent, therefore there will be shared receptors (species and possibly designated sites).	Yes
Cultural Heritage	Yes	Yes	Yes	This development may result in physical impacts on heritage assets that fall within the Project. The nature and proximity of the energy project means that there is also the possibility for cumulative impacts on the setting of heritage assets assessed as part of the Project.	Yes
Water Environment	Yes	Yes	Yes	Whilst this development is located in a shared hydrological catchment, likely significant cumulative effects are not anticipated given the scale of this development and that policy and legislation act to drive the mitigation of impacts of development on water environment receptors and flood risk.	No
Geology and Hydrogeology	Yes	Yes	Yes	The nature of this development is such that significant effects on geology and hydrogeology are not anticipated and significant contamination sources has not been identified within the Project. In addition, legislation and planning requires that for new development, risks to human health and controlled waters from potential contamination are appropriately mitigated. Therefore, cumulative adverse effects in relation to geology and hydrogeology are unlikely. Furthermore, each development will	No

Technical Discipline	Within Technical Discipline Specific ZOI?	Progress in Stage 2	Overlap in temporal scope?	Scale and nature of development likely to have a significant cumulative effect? Relevant Shared receptors and/or pathways?	Progress to Stage 3
				be bound by its own CoCP, and in turn a CEMP where applicable, and it is assumed each development will apply best practice construction methods so as to minimise impacts from contamination on ground conditions and groundwater.	
Agriculture and Soils	Yes	Yes	Yes	This development has the potential for the removal of land from agricultural use and the disturbance of soil resources, and therefore has the potential for a cumulative effect	Yes
Traffic and Transport	Yes	Yes	Yes	Yes – Vehicles involved in the construction of this development are expected to utilise certain routes (PARs) that are also associated with the construction of the Project. This includes the A1079	Yes
Air Quality	Yes	Yes	Yes	Vehicles associated with the construction of this development may share the same routes as vehicles associated with the construction of the Project. This could result in cumulative air quality effects. Additionally, there is the potential for cumulative effects as a result of construction dust and NRMM emissions due to the distance of the development from the Project.	Yes
Noise and Vibration	Yes	Yes	Yes	Construction activities for the cable connection may result in cumulative noise effect.	Yes
Socio-economics, Recreation and Tourism	Yes	Yes	Yes	Yes - Potential for cumulative socio-economic, tourism and recreation effects on residential receptors, business premises, visitor attractions, community facilities, open space, development land and PRoW and recreational routes.	Yes
Health and Wellbeing	Yes	Yes	Yes	Yes – Likely cumulative effects are expected in chapters such as Noise and Vibration and Traffic and Transport; the health and wellbeing cumulative assessment is dependent on these chapters.	Yes

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