# **Outer Dowsing Offshore Wind**

# **Environmental Statement**

Chapter 20: Onshore Archaeology and Cultural Heritage

Volume 1, Chapters

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- Appendix 20.2 Onshore Archaeology and Cultural Heritage Heritage Statement



## **Acronyms & Definitions**

## Abbreviations / Acronyms

Abbreviation / Acronym	Description
AAI	Area of archaeological interest
AOP	Areas of Potential
BGL	Below ground level
СТМР	Construction Traffic Management Plan
DCO	Development Consent Order
DBA	Desk Based Assessment
DMRB	Design Manual for Roads and Bridges
ECC	Export Cable Corridor
EIA	Environmental Impact Assessment
EMHERF	East Midlands Environment Historic Research Framework
EN	National Planning Policy Statement for Energy
EPP	Evidence Plan Process
ES	Environmental Statement
ETG	Expert Topic Group
HER	Historic Environment Record
HS	Heritage Statement
IPC	Infrastructure Planning Commission
LVIA	Landscape Visual Impact Assessment
NHLE	National Heritage List for England
MDS	Maximum Design Scenario
NPPF	National Planning Policy Framework
NSIP	Nationally Significant Infrastructure Projects
ODOW	Outer Dowsing Offshore Wind
OnSS	Onshore Substation
PAS	Portable Antiquity Scheme
PEIR	Preliminary Environmental Information Report
RPG	Registered Park and Garden
TJB	Transition Joint Bay
WSI	Written Scheme of Investigation
ZTV	Zone of Theoretical Study

## Terminology

Term	Definition	
400 kV cables	High-voltage cables linking the OnSS to the NGSS.	
400kV cable corridor	The 400kV cable corridor is the area within which the 400kV cables	
	connecting the onshore substation to the NGSS will be situated.	
The Applicant	GT R4 Ltd. The Applicant making the application for a DCO.	
	The Applicant is GT R4 Limited (a joint venture between Corio Generation,	
	TotalEnergies and Gulf Energy Development (GULF)), trading as Outer	
	Dowsing Offshore Wind. The Project is being developed by Corio	
	Generation (a wholly owned Green Investment Group portfolio company),	
	TotalEnergies and GULF.	



Term	Definition
Baseline	The status of the environment at the time of assessment without the
	development in place.
Connection Area	An indicative search area for the NGSS.
Cumulative effects	The combined effect of the Project acting cumulatively with the effects of
	other developments, on the same single receptor/resource.
Cumulative impacts	Impacts that result from changes caused by other past, present or
	reasonably foreseeable actions together with the Project.
Development Consent	An order made under the Planning Act 2008 granting development consent
Order (DCO)	for a Nationally Significant Infrastructure Project (NSIP).
Effect	Term used to express the consequence of an impact. The significance of an
	effect is determined by correlating the magnitude of the impact with the
	sensitivity of the receptor, in accordance with defined significance criteria.
EIA Directive	European Union 2011/92/EU (as amended in 2014 by Directive
	2014/52/EU).
EIA Regulations	Infrastructure Planning (Environmental Impact Assessment) Regulations
	2017.
Environmental Impact	A statutory process by which certain planned projects must be assessed
Assessment (EIA)	before a formal decision to proceed can be made. It involves the collection
	and consideration of environmental information, which fulfils the
	assessment requirements of the Environmental Impact Assessment (EIA)
	Regulations, including the publication of an Environmental Statement (ES).
Environmental statement	The suite of documents that detail the processes and results of the EIA.
(ES)	
Evidence Plan	A voluntary process of stakeholder consultation with appropriate Expert
	Topic Groups (ETGs) that discusses and, where possible, agrees the
	detailed approach to the Environmental Impact Assessment (EIA) and
	information to support Habitats Regulations Assessment (HRA) for those
	relevant topics included in the process, undertaken during the pre-
	application period.
Export cables	High voltage cables which transmit power from the Offshore Substations
	(OSS) to the Onshore Substation (OnSS) via an Offshore Reactive
	Compensation Platform (ORCP) if required, which may include one or more
	auxiliary cables (normally fibre optic cables).
Haul Road	The track within the onshore ECC which the construction traffic would use
	to facilitate construction.
Impact	An impact to the receiving environment is defined as any change to its
	baseline condition, either adverse or beneficial.
Joint bays	An excavation formed with a buried concrete slab at sufficient depth to
	enable the jointing of high voltage power cables.
Landfall	The location at the land-sea interface where the offshore export cables
	and fibre optic cables will come ashore.
Link boxes	Underground metal chamber placed within a plastic and/or concrete pit
	where the metal sheaths between adjacent export cable sections are
	connected and earthed.
Maximum Design Scenario	The project design parameters or a combination of project design
	parameters that are likely to result in the greatest potential for change in
	relation to each impact assessed.
Mitigation	Mitigation measures are commitments made by the Project to reduce



Term	Definition
	the Project. Mitigation measures can be embedded (part of the Project
	design) or secondarily added to reduce impacts in the case of potentially
	significant effects.
National Grid Onshore	The National Grid substation and associated enabling works to be
Substation (NGSS)	developed by the National Grid Electricity Transmission (NGET) into which
	the Project's 400kV Cables would connect.
National Policy Statement	A document setting out national policy against which proposals for
(NPS)	Nationally Significant Infrastructure Projects (NSIPs) will be assessed and
	decided upon.
Offshore Reactive	A structure attached to the seabed by means of a foundation, with one or
Compensation Platform	more decks and a helicopter platform (including bird deterrents) housing
(ORCP)	electrical reactors and switchgear for the purpose of the efficient transfer
	of power in the course of HVAC transmission by providing reactive
	compensation
Onshore Export Cable	The Onshore Export Cable Corridor (Onshore ECC) is the area within which
Corridor (ECC)	the export cable running from the landfall to the onshore substation will
	be situated.
Onshore Infrastructure	The combined name for all onshore infrastructure associated with
	the Project from landfall to grid connection.
Onshore substation (OnSS)	The Project's onshore HVAC substation, containing electrical equipment,
	control buildings, lightning protection masts, communications masts,
	access, fencing and other associated equipment, structures or buildings; to
	enable connection to the National Grid
Outer Dowsing Offshore	The Project.
Wind (ODOW)	
Order Limits	The area subject to the application for development consent. The limits
	shown on the works plans within which the Project may be carried out.
The Planning Inspectorate	The agency responsible for operating the planning process for Nationally
	Significant Infrastructure Projects (NSIPs).
Preliminary Environmental	The PEIR was written in the style of a draft Environmental Statement (ES)
Information Report (PEIR)	and provided information to support and inform the statutory consultation
	process during the pre-application phase.
The Project	Outer Dowsing Offshore Wind, an offshore wind generating station
	together with associated onshore and offshore infrastructure.
Project design envelope	A description of the range of possible elements that make up the Project's
	design options under consideration, as set out in detail in the project
	description. This envelope is used to define the Project for Environmental
	Impact Assessment (EIA) purposes when the exact engineering parameters
	are not yet known. This is also often referred to as the "Rochdale
	Envelope" approach.
Receptor	A distinct part of the environment on which effects could occur and can be
	the subject of specific assessments. Examples of receptors include species
	(or groups) of animals or plants, people (often categorised further such as
	'residential' or those using areas for amenity or recreation), watercourses
	etc.
Study Area	Area(s) within which environmental impact may occur – to be defined on a
	receptor-by-receptor basis by the relevant technical specialist.



Term	Definition	
Transboundary impacts	Transboundary effects arise when impacts from the development within	
	one European Economic Area (EEA) state affects the environment of	
	another EEA state(s).	
Transition Joint Bay (TJBs)	The offshore and onshore cable circuits are jointed on the landward side of	
	the sea defences/beach in a Transition Joint Bay (TJB). The TJB is an	
	underground chamber constructed of reinforced concrete which provides	
	a secure and stable environment for the cable.	
Trenchless techniques	Trenchless technology is an underground construction method of	
	installing, repairing, and renewing underground pipes, ducts and cables	
	using techniques which minimize or eliminate the need for excavation.	
	Trenchless technologies involve methods of new pipe installation with	
	minimum surface and environmental disruptions. These techniques may	
	include Horizontal Directional Drilling (HDD), thrust boring, auger boring,	
	and pipe ramming, which allow ducts to be installed under an obstruction	
	without breaking open the ground and digging a trench.	

### **Reference Documentation**

Document Number	Title	
6.1.3	Project Description	
6.1.6	Consultation	
6.1.24	Hydrology, Hydrogeology and Flood Risk	
6.1.26	Noise and Vibration	
6.1.27	Traffic and Transport	
6.1.28	Landscape and Visual Assessment	
6.3.20.1	Onshore Archaeology and Cultural Heritage Desk-Based Assessment	
6.3.20.2	Cultural Heritage - Heritage Statement	
6.3.32.1	Cumulative Effects Assessment Approach	
8.9	Outline Onshore Written Scheme of Investigation	
8.13	Schedule of Mitigation	



## 20 Onshore Archaeology and Cultural Heritage

#### 20.1 Introduction

- This chapter of the Environmental Statement (ES) presents the results of the Environmental Impact Assessment (EIA) for the potential impacts of Outer Dowsing Offshore Wind ("the Project") on Onshore Archaeology and Cultural Heritage. Specifically, this chapter considers the potential impact of the Project from the Landfall, along the Onshore Export Cable Corridor (ECC) and 400 kV cable corridor and the Onshore substation (OnSS) during the construction, operation and maintenance, and decommissioning phases.
- 2. GT R4 Ltd (trading as Outer Dowsing Offshore Wind), hereafter referred to as the 'Applicant', is proposing to develop the Project. The Project will include both offshore and onshore infrastructure including an offshore generating station (windfarm) located approximately 54km from the Lincolnshire coastline, export cables to landfall, onshore cables, an onshore substation, connection to the electricity transmission network, and ancillary and associated development (see Volume 1, Chapter 3: Project Description (document reference 6.1.3) for full details). This chapter is supported by and summarises the baseline information contained within a Heritage Statement (HS) and an Archaeological Desk Based Assessment (DBA). These are provided within Volume 3, Appendix 20.1: Onshore Archaeology (document reference 6.3.20.1) and Cultural Heritage Desk-Based Assessment and Volume 3, Appendix 20.2: Onshore Archaeology and Cultural Heritage Heritage Statement (document reference 6.3.202).
- 3. This chapter or the supporting appendices referenced above also reference pertinent findings within the following chapters presented in Volume 1 of the ES:
  - Chapter 24 Onshore Hydrology, Hydrogeology and Flood Risk (document reference 6.1.24);
  - Chapter 26 Noise and Vibration (document reference 6.1.26);
  - Chapter 27 Traffic and Transport (document reference 6.1.27); and
  - Chapter 28 Landscape and Visual Assessment (document reference 6.1.28).

#### 20.2 Statutory and Policy Context

- 4. The applicable legislation and planning policy is summarised as follows.
  - The Infrastructure Planning (Decisions) Regulations 2010, regulation 3;
  - National Planning Policy Framework (NPPF) (2023);
  - National Planning Policy Statement for Energy (EN-1) (2023);
  - East Lindsay Local Plan (2018); and
  - South East Lincolnshire Local Plan 2011-2036 (2019).
- 5. This is set out within Table 20.1 below.



Table 20.1 Legislation and policy context

Legislation/policy	Key provisions	Section where comment addressed
The		The HS identifies the
Infrastructure	(1) When deciding an application	presence/absence of Listed Buildings
Planning	which affects a listed building or its	and Conservation Areas within the
(Decisions)	setting, the Secretary of State must	Order Limits and a search area of up to
Regulations	have regard to the desirability of	5km. It then assesses the potential for
2010, regulation	preserving the listed building or its	adverse effects/harm to Listed
3	setting or any features of special	Buildings and Conservation Areas
5	architectural or historic interest which	through setting change. Where
	it possesses.	necessary and possible, special regard
		to the setting of a Listed Building or
		attention to preserving or enhancing
	(2) When deciding an application	the character of a Conservation Area
	relating to a conservation area, the	has been referenced through
	Secretary of State must have regard to	embedded design mitigation. The
	the desirability of preserving or	implementation of embedded
	enhancing the character or	mitigation is referenced within the
	appearance of that area.	proposed planting set out within LVIA
		Chapter 28 (document reference
		6.1.28.15). The avoidance of
		construction traffic through relevant
		Conservation Areas is set out within
		the Outline Construction Traffic
		Management Plan (CTMP) (document reference 8.15).
	(3) When deciding an application for	The DBA identifies the
	development consent which affects or	presence/absence of Scheduled
	is likely to affect a scheduled	Monuments within the Order Limits
	monument or its setting, the Secretary	and has identified one Scheduled
	of State must have regard to the	Monument – Abbey Hills Moated Site
	desirability of preserving the	(NHLE 1016044) where measures may
	scheduled monument or its setting.	be required to preserve the
		monument as set out within Schedule
		of Mitigation – document reference
		8.13. The HS identifies the
		presence/absence of Scheduled
		Monuments within the Order Limits
		and a search area of up to 5km. It then
		assesses the potential for adverse
		effects/harm through setting change.
National	In determining applications, local	The HS provides proportionate
Planning Policy	planning authorities should require an	statements of significance for
Framework	applicant to describe the significance	potentially affected assets. This has
Chapter 16	of any heritage assets affected,	allowed for the assessment of the
Conserving and	including any contribution made by	



Legislation/policy	Key provisions	Section where comment addressed
Enhancing the	their setting. The level of detail should	potential impact to assets through
historic	be proportionate to the assets'	setting change.
environment -	importance and no more than is	
Paragraph 200	sufficient to understand the potential	The DBA provides statements of
	impact of the proposal on their	significance for potential
	significance. As a minimum the	archaeological remains.
	relevant historic environment record	
	should have been consulted and the	The DBA references the results of field
	heritage assets assessed using	evaluation comprising a watching
	appropriate expertise where	brief of site investigations and
	necessary. Where a site on which	targeted magnetometer geophysical
	development is proposed includes, or	survey and electromagnetic
	has the potential to include, heritage	geophysical survey.
	assets with archaeological interest,	
	local planning authorities should	It is noted that the targeted
	require developers to submit an	geophysical survey has included the
	appropriate desk-based assessment	footprint of the Transition Joint Bays,
	and, where necessary, a field	the only part of the Order Limits
	evaluation.	where significant impacts may have
		been predicted on the basis of historic
		geography and archaeological
		potential but where a potential for
		preservation in situ is not possible (see
		submission documents Figure 3.4.7
		and the schedule of Mitigation -
		document reference 8.13).
		At all other locations within the Order
		Limits where significant impacts could
		occur (in reference to historic
		geography and resulting
		archaeological potential) the
		indicative onshore infrastructure as
		set out in Figure 3.4.7 and the
		Schedule of Mitigation (document
		8.13) provide for the preservation in
		situ of remains of national importance
		should it be required.
National	When considering the impact of a	Paragraph 205 of the NPPF will be
Planning Policy	proposed development on the	applied by the decision maker.
Framework	significance of a designated heritage	
Chapter 16	asset, great weight should be given to	
Conserving and	the asset's conservation (and the	
Enhancing the	more important the asset, the greater	



1		
Legislation/policy	Key provisions	Section where comment addressed
historic	the weight should be). This is	
environment –	irrespective of whether any potential	
Paragraph 205	harm amounts to substantial harm,	
	total loss or less than substantial harm	
	to its significance.	
National	Any harm to, or loss of, the	From the findings of the HS and the
Planning Policy	significance of a designated heritage	DBA, it is anticipated that Paragraph
Framework	asset (from its alteration or	206 of the NPPF will not be engaged.
Chapter 16	destruction, or from development	
Conserving and	within its setting), should require clear	
Enhancing the	and convincing justification.	
historic	Substantial harm to or loss of:	
environment -	a) grade II listed buildings, or grade II	
Paragraph 206	registered parks or gardens, should be	
	exceptional;	
	b) assets of the highest significance,	
	notably scheduled monuments,	
	protected	
	wreck sites, registered battlefields,	
	grade I and II* listed buildings, grade I	
	and II* registered parks and gardens, and	
	World Heritage Sites, should be wholly	
	Exceptional <sup>1</sup>	
National	Where a proposed development will	From the findings of the HS and the
Planning Policy	lead to substantial harm to (or total	DBA, it is anticipated that Paragraph
Framework	loss of significance of) a designated	207 of the NPPF will not be engaged.
Chapter 16	heritage asset, local planning	
Conserving and	authorities should refuse consent,	
Enhancing the	unless it can be demonstrated that the	
historic	substantial harm or total loss is	
environment –	necessary to achieve substantial	
Paragraph 207	public benefits that outweigh that	
1 414 <u>8</u> 14 <u>911</u> 207	harm or	
	loss, or all of the following apply:	
	a) the nature of the heritage asset	
	prevents all reasonable uses of the	
	site; and	
	b) no viable use of the heritage asset	
	itself can be found in the medium	
	term	

<sup>&</sup>lt;sup>1</sup> Non-designated heritage assets of archaeological interest, which are demonstrably of equivalent significance to scheduled monuments, should be considered subject to the policies for designated heritage assets.



		C OFFSHORE WIND
Legislation/policy	Key provisions	Section where comment addressed
	through appropriate marketing that	
	will enable its conservation; and c)	
	conservation by grant-funding or	
	some form of not for profit, charitable	
	or public ownership is demonstrably	
	not possible; and d) the harm or loss is	
	outweighed by the benefit of bringing	
	the site back into use.	
National	Where a development proposal will	Where harm to designated heritage
Planning Policy	lead to less than substantial harm to	assets is identified within the HS it will
Framework	the significance of a designated	be justified by the public benefits of
Chapter 16	heritage asset, this harm should be	the Project which relate to a secure
Conserving and	weighed against the public benefits of	electricity supply and the heritage
Enhancing the	the proposal including, where	capital released by any archaeological
historic	appropriate, securing its optimum	fieldwork.
environment -	viable use.	neidwork.
Paragraph 208	Viable use.	
National	The offect of an application on the	Paragraph 200 will be applied by the
	The effect of an application on the	Paragraph 209 will be applied by the decision maker with reference to the
Planning Policy	significance of a non-designated	
Framework	heritage asset should be taken into	effects identified within the ES.
Chapter 16	account in determining the	
Conserving and	application. In weighing applications	
Enhancing the	that directly or indirectly affect non-	
historic	designated heritage assets, a balanced	
environment –	judgement will be required having	
Paragraph 209	regard to the scale of any harm or loss	
	and the significance of the heritage	
	asset	
National	The applicant should undertake an	The ES chapter, supported by the DBA
Statement for		and the HS, provide a sufficient level
Energy – EN-1	heritage impacts of the proposed	of information to understand the
(2023) –	development as part of the EIA, and	likely significant heritage impacts.
Paragraph 5.9.9	describe these along with how the	Assets above, at and below ground
	mitigation hierarchy has been applied	have been considered and impact to
	in the ES (see Section 4.3). This should	Historic Landscape Character has been
	include consideration of heritage	assessed. Impacts are presented in
	assets above, at, and below the	section 20.7.
	surface of the ground. Consideration	
	will also need to be given to the	
	possible impacts, including	
	cumulative, on the wider historic	
	environment. The assessment should	
	include reference to any historic	
	landscape or seascape character	
	assessment and associated studies as	
		l



Legislation/policy	Key provisions	Section where comment addressed
	a means of assessing impacts relevant	
	to the proposed project.	
National Statement for Energy – EN-1 (2023) – Paragraph 5.9.10	to the proposed project. As part of the ES the applicant should provide a description of the significance of the heritage assets affected by the proposed development, including any contribution made by their setting. The level of detail should be proportionate to the importance of the heritage assets and no more than is sufficient to understand the potential impact of the proposal on their significance. As a minimum, the applicant should have consulted the relevant Historic Environment Record (or, where the development is in English or Welsh waters, Historic England or Cadw) and assessed the heritage assets themselves using expertise where necessary according	The DBA provides statements of significance for potential archaeological remains. The HS provides proportionate statements of significance for potentially affected assets. These are provided in proportion to the importance of assets and the level of impact anticipated.
National Statement for Energy – EN-1 (2023) – Paragraph 5.9.11	to the proposed development's impact. Where a site on which development is proposed includes, or the available evidence suggests it has the potential to include, heritage assets with an archaeological interest, the applicant should carry out appropriate desk- based assessment and, where such desk-based research is insufficient to properly assess the interest, a field evaluation. Where proposed development will affect the setting of a heritage asset, accurate representative visualisations may be necessary to explain the impact.	The DBA references the results of field evaluation comprising a watching brief of site investigations, magnetometer geophysical survey and electromagnetic geophysical survey. It is noted that the targeted geophysical survey has included the footprint of the Transition Joint Bay, the only part of the Order Limits where significant impacts may have been predicted on the basis of historic geography and archaeological potential but where a potential for preservation in situ is not possible (see submission documents Figure 3.4.7 and the schedule of Mitigation - document reference 8.13). At all other locations within the Order Limits where significant impacts could



Legislation/policy	Key provisions	Section where comment addressed occur (in reference to historic geography and resulting archaeological potential) the indicative onshore infrastructure as set out in Figure 3.4.7 and the Schedule of Mitigation (document 8.13) provide for the preservation in situ of remains of national importance should it be required
		Further geophysical survey and trial trenching will be carried out post EIA as well as post consent works set out within the OWSI (document reference 8.9). These works will support the preservation in-situ of remains of national importance commitment. In these circumstances the baseline presented is considered adequate for the determination of the DCO.
		Visualisations of the OnSS are provided and include computer generated images of the proposals from viewpoints relevant to heritage assets, see Figures 6.2.28.17-27.
National Statement for Energy – EN-1 (2023) – Paragraph 5.9.12	The applicant should ensure that the extent of the impact of the proposed development on the significance of any heritage assets affected can be adequately understood from the application and supporting documents. Studies will be required on those heritage assets affected by noise, vibration, light and indirect impacts, the extent and detail of these studies will be proportionate to the significance of the heritage asset affected.	The information provided within the HS and DBA provides for an understanding of which assets may experience adverse impact/harm.
National Statement for Energy – EN-1 (2023) – Paragraph 5.9.13	The applicant is encouraged, where opportunities exist, to prepare proposals which can make a positive contribution to the historic environment, and to consider how their scheme takes account of the	The proposals do not offer opportunities to enhance or to better reveal the significance of heritage assets.



Legislation/policy	Key provisions	Section where comment addressed
	significance of heritage assets	
	affected. This can include, where	
	possible:	
	<ul> <li>enhancing, through a range of</li> </ul>	
	measures such a sensitive	
	design, the significance of	
	heritage assets or setting	
	affected	
	<ul> <li>considering where required</li> </ul>	
	the development of archive	
	capacity which could deliver	
	significant public benefits.	
	<ul> <li>considering how visual or</li> </ul>	
	noise impacts can affect	
	heritage assets, and whether	
	there may be opportunities to	
	enhance access to, or	
	interpretation, understanding	
	and appreciation of, the	
	heritage assets affected by	
	the scheme.	
National	Careful consideration in preparing the	The impacts identified within this ES,
Statement for	scheme will be required on whether	and assessed in section 20.7 of this
Energy – EN-1	the impacts on the historic	chapter, are classified as direct,
(2023) –	environment will be direct or indirect,	indirect, temporary or permanent.
Paragraph 5.9.14	temporary, or permanent.	With regard to the potential impacts
		to heritage assets through setting
		change, permanent impacts have
		been avoided by mitigation planting.
		This is set out within the HS.
National	Applicants should look for	The proposals do not offer
Statement for		opportunities to enhance or to better
	within Conservation Areas and World	
Energy – EN-1		reveal the significance of heritage
(2023) –	Heritage Sites, and within the setting	assets.
Paragraph 5.9.15	of heritage assets, to enhance or	
	better reveal their significance.	
	Proposals that preserve those	
	elements of the setting that make a	
	positive contribution to the asset (or	
	which better reveal its significance)	
	should be treated favourably.	
National	Where the loss of the whole or part of	An Outline Written Scheme of
Statement for		Investigation for Archaeological
Energy – EN-1	justified, the Secretary of State will	Works (document reference 8.9) has
(2023) –	require the applicant to record and	been prepared setting out a
(2020)	require the applicant to record and	seen prepared setting out a



Mitigation Paragraphs- advance understanding of the significance of the heritage asset before it is lost (wholly or in part). The extent of the requirement should be proportionate to the asset's importance and significance and the impact. The applicant should be required to publish this evidence and to deposit copies of the reports with the relevant Historic Environmental Record. They should also be required to deposit the archive generated in a local museum or other public repository willing to receive it.framework for all WSIs to be pre- in respect to archaeological field OWSI would be implemented aff written agreement of the authority.Where appropriate, the secretary of State will impose requirements on the Development Consent Order to ensure that the work is undertaken in a timely manner, in accordance with a written scheme of investigation that complies with the policy in this NPS and which has been agreed in writing with the relevant local authority, and to ensure that the completion of the exercise is properly secured.Where the loss of significance of any heritage asset has been justified by the applicant on the merits of the new development Consent Order is tas should consider:Imposing a requirement in the Development Consent OrderImposing a requirement in the Development consent Order <t< th=""><th></th><th></th><th>C OFFSHORE WIND</th></t<>			C OFFSHORE WIND
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That will prevent the loss occurring		<ul> <li>requiring the applicant to</li> </ul>	
		enter into an obligation.	
		That will prevent the loss occurring	
until the relevant part of the		until the relevant part of the	
development has commenced, or it is		development has commenced, or it is	
reasonably certain that the relevant		reasonably certain that the relevant	
part of the development is to proceed.		-	



		OFFSHORE WIND
Legislation/policy	Key provisions	Section where comment addressed
	Where there is a high probability	
	(based on an adequate assessment)	
	that a development site may include,	
	as yet undiscovered heritage assets	
	with archaeological interest, the	
	Secretary of State will consider	
	requirements to	
	ensure appropriate procedures are in	
	place for the identification and	
	treatment of such assets discovered	
	during construction.	
National	When considering the impact of a	Paragraph 5.9.27 will be applied by
Statement for		the decision maker with reference to
Energy – EN-1	significance of a designated heritage	the effects identified within the ES.
(2023) –	asset, the Secretary of State should	
Paragraph 5.9.27	give great weight to the asset's	
	conservation. The more important the	
	asset, the greater the weight should	
	be. This is irrespective of whether any	
	potential harm amounts to substantial	
	harm, total loss, or less than	
	substantial harm to its significance.	
National	The Secretary of State should give	Paragraph 5.9.28 will be applied by
Statement for		the decision maker with reference to
Energy – EN-1	to the desirability of preserving all	the effects identified within the ES and
(2023) –	heritage assets. Any harm or loss of	the public benefits around an
Paragraph 5.9.28	significance of a designated heritage	electricity supply that the proposals
1 al agraph 5.5.20	asset (from its alteration or	offer.
	destruction, or from development	oner.
	within its setting) should require clear	
	<i>c,</i>	
Netieral	and convincing justification	From the findings of the UC in i
National	Substantial harm to or loss of	From the findings of the HS it is
Statement for	0	anticipated that Paragraph 5.9.29 will
Energy – EN-1	Building or a grade II Registered Park	not be engaged.
(2023) –	or Garden should be exceptional.	
Paragraph 5.9.29		
National	Substantial harm to or loss of	From the findings of the HS and DBA,
Statement for	significance of assets of the highest	it is anticipated that Paragraph 5.9.30
Energy – EN-1	significance, including Scheduled	will not be engaged.
(2023) –	Monuments; Protected Wreck Sites;	
Paragraph 5.9.30	Registered Battlefields; grade I and II*	
	Listed Buildings; grade I and II*	
	Registered Parks and Gardens; and	
	World Heritage Sites, should be wholly	
	exceptional	
		<u> </u>



		OFFSHORE WIND
Legislation/policy	Key provisions	Section where comment addressed
National	Where the proposed development	From the findings of the HS, it is
Statement for	will lead to substantial harm to (or	anticipated that Paragraph 5.9.31 will
Energy – EN-1	total loss of significance of) a	not be engaged.
(2023) –	designated heritage asset the	6.6
Paragraph 5.9.31	Secretary of State should refuse	
1 01 081 010101	consent unless it can be demonstrated	
	that the substantial harm to, or loss of,	
	significance is necessary to achieve	
	substantial public benefits that	
	outweigh that harm or loss, or all the	
	following apply:	
	the nature of the heritage	
	asset prevents all reasonable	
	uses of the site.	
	no viable use of the heritage	
	asset itself can be found in the	
	medium term through	
	appropriate marketing that	
	will enable its conservation.	
	<ul> <li>conservation by grant-funding</li> </ul>	
	or some form of not for profit,	
	charitable or public ownership	
	is demonstrably not possible.	
	the harm or loss is	
	outweighed by the benefit of	
	bringing the site back into use.	
National	Where the proposed development	Where harm to designated heritage
Statement for	will lead to less than substantial harm	assets is identified this will be justified
Energy – EN-1	to the significance of the designated	by the public benefits which relate to
(2023) –	heritage asset, this harm should be	a secure electricity supply and the
Paragraph 5.9.32	weighed against the public benefits of	heritage capital that would be
	the proposal, including, where	released by any archaeological
	appropriate securing	fieldwork.
	its optimum viable use	
National	In weighing applications that directly	Paragraph 5.9.33 will be applied by
Statement for	or indirectly affect non-designated	the decision maker with reference to
Energy – EN-1	heritage assets, a balanced judgement	the effects identified within the ES.
(2023) –	will be required having regard to the	The Inspector is referred to the public
Paragraph 5.9.33	scale of any harm or loss and the	benefits of a secure electricity supply
	significance of the heritage asset.	and the public benefits of the release
	Significance of the heritage asset.	of heritage capital through
		archaeological fieldwork.
East Lindson	The Council will support proposed	The DRA and US (Malume 2
East Lindsey		The DBA and HS (Volume 3,
Local Plan Core	that secure the continued protection	Appendices 20.1 and 20.2) have



		OFFSHORE WIND
Legislation/policy	Key provisions	Section where comment addressed
Strategy –	and enhancement of heritage assets in	sought to understand the significance
Strategic Policy	East Lindsey, contribute to the wider	of heritage assets potentially affected
11 – Historic	vitality and regeneration of the areas	by the proposals so that the level of
Environment	in which they are located and	any adverse harm can be understood
	reinforce a strong sense of place.	and mitigated where appropriate.
	Proposals will be supported where	Harm to Scheduled Monuments and
	they:	Listed Buildings through setting
	<ul> <li>Preserve or enhance heritage</li> </ul>	change has been identified but this is
	assets and their setting;	not significant and will be mitigated by
	<ul> <li>Preserve or enhance the</li> </ul>	planting set out within Figure
	special character, appearance	6.2.28.15. No harm to Conservation
	and setting of the District's	Areas is predicted.
	C C	
	Conservation Areas. Proposals	
	should take into account the	
	significance of Conservation	
	Areas including spaces, street	
	patterns, views vistas and	
	natural features, and reflect	
	this in their layout, scale,	
	design, detailing, and	
	materials;	
	<ul> <li>Have particular regard to the</li> </ul>	
	special architectural or	
	historic interest and setting of	
	the District's Listed Buildings.	
	Proposals will be expected to	
	demonstrate that they are	
	compatible with the	
	significance of a listed building	
	including fabric, form, setting	
	and use;	
	Do not harm the site or	
	setting of a Scheduled	
	Monument; any unscheduled	
	nationally important or locally	
	significant archaeological site.	
	Appropriate evaluation,	
	recording or preservation in	
	situ is required and should be	
	undertaken by a suitably	
	qualified party;	
	<ul> <li>Preserve or enhance the</li> </ul>	
	quality and experience of the	
	historic landscapes and	<u> </u>



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Legislation/policy	<ul> <li>Key provisions</li> <li>woodland of the District and their setting;</li> <li>Are compatible with the significance of non-designated heritage assets in East Lindsey;</li> <li>Do not have a harmful cumulative impact on heritage assets;</li> <li>Promote a sustainable and viable use which is compatible with the fabric, interior, surroundings and setting of the heritage asset; and</li> <li>Conserve heritage assets identified as being at risk, ensuring the optimum viable use of an asset is secured where it is consistent with the significance of the heritage asset. This may include redevelopment or enabling development, particularly where a use would benefit the wider.</li> </ul>	Section where comment addressed
South East Lincolnshire Local Plan 2011- 2036 – Policy 29 The Historic Environment	<ul> <li>Distinctive elements of the Southeast Lincolnshire historic environment will be conserved and, where appropriate, enhanced. Opportunities to identify a heritage asset's contribution to the economy, tourism, education and the local community will be utilised including:</li> <li>The historic archaeological and drainage landscape of the Fens;</li> <li>The distinctive character of South East Lincolnshire market towns and villages;</li> <li>The dominance within the landscape of church towers, spires and historic windmills.</li> <li>To respect the historical legacy, varied character and appearance of South</li> </ul>	The supporting technical appendices set out the significance of assets potentially affected (Volume 3, Appendices 20.1 and 20.2). Appendix 20.2, the HS, sets out the contribution that setting makes towards the significance of assets and sets out potential impacts through setting change. No significant impacts are identified. The DBA references the results of field evaluation comprising a watching brief of site investigations, magnetometer geophysical survey and electromagnetic geophysical survey. In light of the indicative onshore infrastructure as set out in Figure 3.4.7, a commitment that



#### Legislation/policy Key provisions

Section where comment addressed

East Lincolnshire's historic environment, development proposals will conserve and enhance the character appearance and of and non-designated designated heritage assets, such as important known archaeology or that found during development, historic buildings, conservation areas, scheduled monuments, street patterns, streetscapes, landscapes, parks (including Registered Parks and Gardens), river frontages, structures and their settings through high-quality sensitive design.

#### A. Listed Buildings

Proposals that affect the setting of a Listed Building will be supported where they preserve or better reveal the significance of the Listed Building.

#### **B.** Conservation Areas

Proposals within, affecting the setting of, or affecting views into or out of, a Conservation Area should preserve (and enhance or reinforce, as appropriate) features that contribute positively to the area's character, appearance and setting. Proposals should:

Assess, and mitigate against, any negative impact the proposal might have on the townscape, roofscape, skyline and landscape;

C. Archaeology and Scheduled Monuments

Proposals that affect archaeological remains, whether known or potential, designated or non-designated, should take every reasonable step to protect and, where possible, enhance their significance.

preservation in situ could be accommodated for works along the onshore ECC between the TJB and the OnSS (Schedule of Mitigation document reference 8.13) and the findings of the DBA and this Chapter, further fieldwork is not considered necessary at EIA. Post EIA works to support the preservation in-situ commitment will include further geophysical survey and trial trenching and post consent works mitigation is set out within the OWSI (document reference 8.9). In these circumstances the baseline presented is considered adequate for the determination of the DCO. All impacts should be balanced against the public benefit of the scheme which contributes towards a secure electricity supply.



		OFFSHORE WIND
Legislation/policy	Key provisions	Section where comment addressed
	Planning applications for such	
	development should be accompanied	
	by an appropriate and proportionate	
	assessment to understand the	
	potential for and significance of	
	remains, and the impact of	
	development upon them.	
	If initial assessment does not provide	
	-	
	sufficient information, developers will	
	be required to undertake field	
	evaluation in advance of	
	determination of the application. This	
	may include a range of techniques for	
	both intrusive and non-intrusive	
	evaluation, as appropriate to the site.	
	Wherever possible and appropriate,	
	mitigation strategies should ensure	
	the preservation of archaeological	
	remains in-situ. Where this is either	
	not possible or not desirable,	
	provision must be made for	
	•	
	preservation by record according to	
	an agreed written scheme of	
	investigation submitted by the	
	developer, undertaken by a suitably	
	qualified person, and approved by the	
	Local Planning Authority.	
	Any work undertaken as part of the	
	planning process must be	
	appropriately archived in a way	
	agreed with the Local Planning	
	Authority.	
	D. Registered Parks and Gardens	
	Proposals that cause substantial harm	
	to a Registered Park or Garden, or its	
	setting will not be permitted, unless in	
	an exceptional case, where a clear and	
	convincing justification is made in line	
	with national policy.	
	F. Development Proposals	
	Where a development proposal would	
	affect the significance of a heritage	



Legislation/policy       Key provisions       Section where comment addresse         asset (whether designated or non- designated), including any contribution made to its setting, it should be informed by proportionate historic environment assessments and evaluations (such as heritage impact assessments, desk-based appraisals, field evaluation and historic building reports) that: <ul> <li>identify all heritage assets likely to be affected by the proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate the extent of the harm to the</li> </ul>	Legislation/policy	Key provisions	Section where comment addressed
<ul> <li>designated), including any contribution made to its setting, it should be informed by proportionate historic environment assessments and evaluations (such as heritage impact assessments, desk-based appraisals, field evaluation and historic building reports) that: <ul> <li>identify all heritage assets likely to be affected by the proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul> </li> </ul>	- Legislation/policy		Section where comment addressed
<ul> <li>contribution made to its setting, it should be informed by proportionate historic environment assessments and evaluations (such as heritage impact assessments, desk-based appraisals, field evaluation and historic building reports) that: <ul> <li>identify all heritage assets likely to be affected by the proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul> </li> </ul>			
<ul> <li>should be informed by proportionate historic environment assessments and evaluations (such as heritage impact assessments, desk-based appraisals, field evaluation and historic building reports) that: <ul> <li>identify all heritage assets likely to be affected by the proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul> </li> </ul>			
<ul> <li>evaluations (such as heritage impact assessments, desk-based appraisals, field evaluation and historic building reports) that: <ul> <li>identify all heritage assets likely to be affected by the proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul> </li> </ul>			
<ul> <li>assessments, desk-based appraisals, field evaluation and historic building reports) that: <ul> <li>identify all heritage assets likely to be affected by the proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul> </li> </ul>		historic environment assessments and	
field evaluation and historic building reports) that: <ul> <li>identify all heritage assets likely to be affected by the proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>		evaluations (such as heritage impact	
<ul> <li>reports) that:</li> <li>identify all heritage assets likely to be affected by the proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>		assessments, desk-based appraisals,	
<ul> <li>identify all heritage assets likely to be affected by the proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>		field evaluation and historic building	
<ul> <li>likely to be affected by the proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>		reports) that:	
<ul> <li>proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>		<ul> <li>identify all heritage assets</li> </ul>	
<ul> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>		likely to be affected by the	
<ul> <li>of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>		proposal;	
<ul> <li>contribute to their</li> <li>significance and</li> <li>demonstrating how, in order</li> <li>of preference, any harm will</li> <li>be avoided, minimised or</li> <li>mitigated;</li> <li>provide a clear explanation</li> <li>and justification for the</li> <li>proposal in order for the harm</li> <li>to be weighed against public</li> <li>benefits; and</li> <li>demonstrate that all</li> <li>reasonable efforts have been</li> <li>made to sustain the existing</li> <li>use, find new uses, or mitigate</li> </ul>		<ul> <li>explain the nature and degree</li> </ul>	
<ul> <li>significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>		of any effect on elements that	
<ul> <li>demonstrating how, in order</li> <li>of preference, any harm will</li> <li>be avoided, minimised or</li> <li>mitigated;</li> <li>provide a clear explanation</li> <li>and justification for the</li> <li>proposal in order for the harm</li> <li>to be weighed against public</li> <li>benefits; and</li> <li>demonstrate that all</li> <li>reasonable efforts have been</li> <li>made to sustain the existing</li> <li>use, find new uses, or mitigate</li> </ul>		contribute to their	
of preference, any harm will be avoided, minimised or mitigated; provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate		_	
<ul> <li>be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>		<b>S</b>	
<ul> <li>mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>			
<ul> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>		-	
<ul> <li>and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>			
<ul> <li>proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>			
<ul> <li>to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>		-	
<ul> <li>benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>			
<ul> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>			
reasonable efforts have been made to sustain the existing use, find new uses, or mitigate			
made to sustain the existing use, find new uses, or mitigate			
use, find new uses, or mitigate			
significance of the asset; and whether the works proposed			
are the minimum required to			
secure the long-term use of		-	
the asset.		_	



### 20.3 Consultation

- 6. Consultation is a key part of the Development Consent Order (DCO) application process. Consultation regarding Onshore Archaeology and Cultural Heritage has been conducted through the following processes:
  - Evidence Plan Process (EPP) including Expert Topic Group (ETG) meetings;
  - EIA scoping process (ODOW, 2022);
  - Bilateral engagement with relevant stakeholders;
  - Section 47 consultation process (all public consultation phases including phase 1 and 1a); and,
  - Section 42 consultation process (Phase 2 Consultation, the Autumn Consultation and the Targeted Winter Consultation).
- An overview of the Project's consultation process with reference to technical considerations is presented within Volume 1, Chapter 6: Technical Consultation (document reference 6.1.6).
   Further information on the Project's consultation phases can be found in the Project's Consultation Report (document reference 5.1).

A summary of the key issues raised during consultation to date, specific to Onshore Archaeology and Cultural Heritage, is outlined in Table 20.2 below, together with how these issues have been considered in the provision of this chapter.



Table 20.2: Summary of consultation relating to Archaeology and Cultural Heritage

Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
9th September 2022	Given the stage of the Proposed Development and	The HS provided in Appendix 20.2 has addressed all
Scoping Opinion	current absence of information regarding the	potential impact to designated and non-designated assets
The Planning Inspectorate	significance of assets and potential impacts of the	within search areas extending to 5km for designated
3.14.1 - Table 8.2.4 -	Proposed Development, the Inspectorate does not	assets of high importance.
The consideration of indirect	agree to scope this matter out. The ES should include	
(setting) effects caused by the	an assessment of indirect (setting) effects arising from	
construction of the onshore	the construction of the onshore export cable on	
export cable on designated	designated heritage assets more than 500m from the	
heritage assets located in excess	route, where likely significant effects could occur.	
of 500m from the route.		
9th September 2022	Given the stage of the Proposed Development and	The HS provided in Appendix 20.2 has addressed all
Scoping Opinion	lack of information about the location of the OnSS, the	potential impact to designated and non-designated assets
The Planning Inspectorate3.14.2 -	Inspectorate does not agree at this stage it is possible	within search areas extending to 5km for designated
Table 8.2.4 - The consideration	to scope out effects on heritage assets in excess of	assets of high importance.
of indirect (setting) effects	2km from the route. Given the potential size, scale	
caused by the presence of the	and undefined location of this element of the	
substation on designated	Proposed Development, this matter should be scoped	
heritage assets in excess of 2km	into the assessment where likely significant effects could occur.	
from the installations.		
9th September 2022	Given the distance to the array, the Inspectorate	Scoped out.
Scoping Opinion	agrees that there is unlikely to be a significant effect	
The Planning Inspectorate	on the terrestrial heritage assets not highlighted by	
3.14.3 - Table 8.2.4 – The	stakeholders or identified as being potentially	
consideration of indirect	sensitive by the heritage consultant and that this	
(setting) effects caused by the	matter can be scoped out of the assessment.	
offshore turbines and		
substations on terrestrial		
designated heritage assets not		



Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
highlighted by stakeholders or		
identified as being potentially		
sensitive by the heritage		
consultant.		
9th September 2022	The Inspectorate agrees that given the localised	Scoped out.
Scoping Opinion	onshore nature of the effects from the Proposed	
The Planning Inspectorate 3.14.4 -	Development, significant transboundary heritage	
Paragraph 8.2.44 – Potential	effects are unlikely to occur, and this matter can be	
transboundary effects	scoped out of the assessment.	
9th September 2022	The Applicant's attention is directed to the response	The East Midlands Historic Environment Research
Scoping Opinion	of Historic England at Appendix 2 of this Opinion,	Framework (EMHERF) is referenced appropriately within
The Planning Inspectorate 3.14.5 -	which identifies the East Midlands Historic	the OWSI (document reference 8.9).
Table 8.2.1	Environment Research Framework (EMHERF) as an	
	important resource for both marine and terrestrial	
011 0 1 0000	archaeology impact assessments.	
9th September 2022	It is not clear from the Scoping Report why a 2km	The HS provided in Appendix 20.2 has addressed all
Scoping Opinion	search area around the OnSS has been chosen to	potential impact to designated and non-designated assets
The Planning Inspectorate 3.14.6 - Paragraph 8.2.23	establish those heritage assets that could be sensitive to changes in their setting. The ES should explain the	within search areas extending to 5km for designated assets of high importance
5.14.0 - Palagraph 6.2.25	choice of all search areas used including the reasons	assets of high importance
	for their selection.	
9th September 2022	The Inspectorate notes that a ZTV will be prepared as	The ZTV is shown on the drawings illustrating the location
Scoping Opinion	part of the landscape and visual assessment (LVIA) for	of designated heritage assets. The ZTV was referred to
The Planning Inspectorate	the onshore works and that it may be used for the	during the filtering of assets undertaken as part of the EIA.
3.14.7 - Paragraph 8.2.38	Archaeology and Cultural Heritage assessment. The	It is recognised and understood that impacts to setting are
	Inspectorate recommends the LVIA, and heritage	not just visual, as it also recognised that a visual change
	consultants liaise closely with regards to the ZTV to	does not necessarily equate to 'harm'. The assessment of
	ensure heritage assets within the LVIA ZTV are	effects to setting which may include the consideration of
	appropriately identified, noting that impacts on	lighting and noise changes has been considered. This is
	setting are not limited to just visual. Should the use of	addressed within Appendix 20.2.
	a ZTV be considered ineffective for the cultural	



Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
	heritage assessment (as noted as possible in the Scoping Report), this should be explained and justified in the ES.	
9th September 2022 Scoping Opinion The Planning Inspectorate 3.14.8 - Paragraph 8.2.39	The ES should clearly explain what aspect-specific criteria are used to define receptor value/sensitivity and magnitude of change for the archaeology and cultural heritage assessment.	For the purposes of EIA, a tabulated matrix has been utilised to present the results of impact assessment. The Design Manual for Roads and Bridges (DMRB) matrices has been referenced with a technical narrative presented within the HS, DBA and Chapter where necessary.
9th September 2022 Scoping Opinion The Planning Inspectorate 3.14.9 - Table 8.2.3	The ES should also consider the potential for effects on other historic land features, such as drainage patterns and ditches alongside historic landscape character, where significant effects are likely to occur. Reference could be made to the Lincolnshire Historic Landscape Characterisation (2011).	The assessment of potential effects on historic landscape character is addressed within Appendix 20.2, Annex 3. Features of the historic landscape areas assessed referencing the areas included in the Lincolnshire Historic Landscape Characterisation Project include drainage ditches and dykes. As such these features of historic landscape character are considered to be assessed. No significant impacts are identified.
9th September 2022 Scoping Opinion The Planning Inspectorate 3.14.10 - Paragraph 8.2.31	The assessment should address the significance of both designated and non-designated heritage assets, using sufficiently robust evidence and taking into account advice from relevant consultation bodies.	Non-designated assets and designated heritage assets have been considered. These primarily include assets of a built heritage nature, designated and non-designated. However, other remains may also be sensitive to change, particularly if they have earthworks and are tangible features where understanding is clearly evidenced by visible landscape features. In respect to non-designated assets, consideration of the latter has highlighted certain categories of non-designated asset which may be affected by setting change under the circumstances of the proposals. These include earthworks which could be affected by potential partial breach/loss of footprint. This is addressed within Appendix 20.2.
9th September 2022 Scoping Opinion	The baseline data should include a review of available Portable Antiquities Scheme data.	The Portable Antiquities Scheme has been consulted with and the results included within the DBA, Appendix 20.1.



Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
The Planning Inspectorate		
3.14.11 -Paragraph 8.2.35		
9th September 2022	The Inspectorate notes that limited information is	Proposed mitigation measures which include preservation
Scoping Opinion	provided in the Scoping Report on the approach to	in situ for remains of national importance are set out
The Planning Inspectorate	mitigation, beyond proposed embedded measures.	within the OWSI (document reference 8.09).
3.14.12 - Paragraphs 8.2.40 to	The Applicant should seek to agree an appropriate	
8.2.41	mitigation strategy that addresses significant effects	
	with the relevant consultation bodies, as part of the	
014 0 014 0 0000	EPP.	
9th September 2022	The onshore elements of the Proposed Development	Acknowledgement of potential change to the water
Scoping Opinion The Planning Inspectorate	have potential to change the pattern of drainage within and adjacent to the boundary of works. Effects	environment has been achieved through reference to Chapter 24.
3.14.13 - n/a	of changes to drainage on designated and non-	
5.14.15 - II/a	designated heritage assets should be included in the	
	assessment, where significant effects are likely to	
	occur.	
9th September 2022	Gunby Hall Registered Park and Garden - This RPG is	The asset is located 4.7km west of the ECC and is
Scoping Opinion	located adjacent to the western boundary of the area	addressed within Volume 3, Appendix 20.2: Onshore
The Planning Inspectorate	of search for the Proposed Development. Setting	Archaeology and Cultural Heritage - Heritage Statement.
3.14.14 - n/a	effects on this receptor should be addressed in the	
	assessment where significant effects are likely to	
	occur. There should be appropriate cross reference	
	between the LVIA and the Archaeology and Cultural	
	Heritage assessments to ensure there is complete	
	consideration of potential effects on this receptor.	
9th September 2022	The ES should assess impacts to peat deposits in this	Peat deposits have been referenced within the DBA, see
Scoping Opinion	aspect chapter, in addition to the consideration of	Appendix 20.1. This has referenced a deposit model which
The Planning Inspectorate	peat acknowledged for the Marine Archaeology	has addressed the potential for peat deposits. The
3.14.15 n/a	aspect chapter, where significant effects are likely to	potential impact to peat deposits is set out within section
	occur. The approach to assessment and any proposed	20.7.



Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
	mitigation should be discussed with the relevant	
	consultation bodies.	
9th September 2022	The Applicant's attention is directed to the response	The DBA references a review of the necessity for a full air
Scoping Opinion	of Lincolnshire County Council contained in Appendix	photo assessment (Appendix 20.1). On the grounds set out
The Planning Inspectorate	2 to this Opinion in respect of the approach to the	within the DBA it is anticipated that the geophysical survey
3.14.16 - n/a	design and detail for the archaeological impact	is a reliable prospection technique for significant or
	assessment. The Applicant should seek to agree the	extensive archaeological remains. Aerial photographic
	detailed scope of the impact assessment with the relevant consultation bodies, including the County	assessment is not necessary to supplement the geophysical survey.
	Archaeologist and Historic England, as part of the EPP.	geophysical survey.
	Archaeologist and historic England, as part of the EFF.	
	County Archaeologist Comment - Baseline data	
	sources -	
	A full competent LiDAR and air photo analysis,	
	interpretation and assessment is required with	
	full aerial photo coverage using all available	
	oblique and vertical air photos including the	
	Historic England Archive and Cambridge	
	University Collection of Air	
	Photos as well as RAF and Ordnance Survey photos	
	including those held by Lincolnshire County Council.	
9th September 2022	The Applicant's attention is directed to the response	The post medieval section of the DBA, Appendix 20.1,
Scoping Opinion	of Lincolnshire County Council contained in Appendix	references a cartographic regression including Ordnance
The Planning Inspectorate	2 to this Opinion in respect of the approach to the	Survey maps and pre-Ordnance Survey maps held by the
3.14.16 - n/a	design and detail for the archaeological impact	Lincolnshire record office.
	assessment. The Applicant should seek to agree the	
	detailed scope of the impact assessment with the	
	relevant consultation bodies, including the County	
	Archaeologist and Historic England, as part of the EPP.	



Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
	County Archaeologist Comment - Baseline data	
	sources - Full historic map regression of impact zone	
	to include all available maps.	
9th September 2022	The Applicant's attention is directed to the response	A LiDAR assessment has been undertaken for the Order
Scoping Opinion	of Lincolnshire County Council contained in Appendix	Limits (see Volume 3, Appendix 20.1, Annex 17).
The Planning Inspectorate	2 to this Opinion in respect of the approach to the	
3.14.16 - n/a	design and detail for the archaeological impact	
	assessment. The Applicant should seek to agree the	
	detailed scope of the impact assessment with the	
	relevant consultation bodies, including the County	
	Archaeologist and Historic England, as part of the EPP.	
	County Archaeologist Comment - Baseline data	
	sources - Full LiDAR assessment across the impact	
	zone.	
9th September 2022	The Applicant's attention is directed to the response	The DBA, Appendix 20.1, references the results of field
Scoping Opinion	of Lincolnshire County Council contained in Appendix	evaluation comprising a watching brief of site
The Planning Inspectorate	2 to this Opinion in respect of the approach to the	investigations and targeted magnetometer geophysical
Appendix 2 responses	design and detail for the archaeological impact	survey and electromagnetic geophysical survey. In light of
	assessment. The Applicant should seek to agree the	the indicative onshore infrastructure as set out in Figure
	detailed scope of the impact assessment with the	3.4.7, a commitment that preservation in situ of remains
	relevant consultation bodies, including the County	of national importance could be accommodated for works
	Archaeologist and Historic England, as part of the EPP.	along the onshore Order Limits (document reference 8.13)
		and the findings of the DBA and this Chapter, it is not
	County Archaeologist comment - Fieldwork –	considered necessary to further evaluate the significance
	It's vital that a competent full desk-based assessment	of potential archaeology. Further geophysical and trial
	be completed at the earliest opportunity, as this along	trenching will be undertaken post EIA to support the
	with a full Air Photo/LiDAR assessment and the	preservation in-situ commitment. In these circumstances
	geophysical survey results across the impact zone all	the baseline presented is considered adequate for the
	required to inform the trial trenching strategy which is	determination of the DCO. The Outline Written Scheme of
	necessary to determine the archaeological	Investigation (OWSI) provides for a framework for the



Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
	potential within the impact zone.	undertaking of evaluation to inform all mitigation
		strategies including preservation in situ post consent of
	Following geophysical survey a programme of trial	the DCO. All potential mitigation strategies are set out
	trenching is required, not only across known or	within the OWSI (document reference 8
	suspected archaeology to determine their presence or	
	absence, depth, extent and significance but also	
	across the 'blank' areas to obtain baseline evidence	
	where previous evaluation techniques have not	
	identified archaeological remains. This is required to	
	get a full understanding of the archaeology which will	
	be impacted across the full impact zone and will	
	inform the archaeological mitigation strategy which	
	must be undertaken as part of the EIA.	
	Trenching results are essential for effective risk	
	management and to inform programme scheduling	
	and budget management. Failing to do so could lead	
	to unnecessary destruction of heritage assets,	
	potential programme delays and excessive cost	
	increases that could otherwise be avoided. A	
	programme of trial trenching is required to inform a	
	robust mitigation strategy which will need to be	
	agreed by the time the Environmental Statement is	
	produced and submitted with the DCO application.	
Section 42 responses	Historic England - it will be important as design is	The geoarchaeological deposit model appended to the
	developed that there is no loss of coverage between	DBA extends within the inter-tidal zone. Any further
	the Marine and Terrestrial WSI's - this should be	geoarchaeological deposit modelling undertaken after the
	specifically reviewed to ensure continuous coverage	implementation of further geoarchaeological field work
	of archaeological methodology. In addition, where	set out within the DBA will reference the results of any
	remains such for instance as buried soils or shoreline	work undertaken in respect to the offshore works such
	structures span between the two regimes it will be	that any relevant information on deposits recorded by the



Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
	important that investigation and report are	offshore works will be dovetailed with the results of the
	integrated.	onshore works, where it is pertinent to do so.
Section 42 responses	Historic England - Consultation on the terrestrial geophysical survey has been positive. This work has we understand now commenced (too late for inclusion in the PEIR) hence cannot be discussed at length here. We would note however the importance of a nuanced approach to the deployment of survey techniques in particular on the cable run along the coastal silts where within those areas of low potential there are evident areas of more solid ground with medieval and later archaeological features which should be targeted in their geomorphological context (i.e., not just the	Geophysical survey has targeted the parts of the Order Limits within areas west of historic high-water marks. These areas in the northern and central parts of the Order Limits (ECC1-ECC10) are considered to hold archaeological potential due to their historic location within areas not characterised by permanent inundation or tidal conditions for part of or all of the periods between the Late Mesolithic period and the medieval period. Areas of drier land in these parts of the Order Limits, which may have persisted as habitable or semi-habitable places within areas being affected by the historic fluctuations in high water marks and coastal flooding, have been identified by
	features visible on lidar but the 'dry' landscape component as a whole). It will be important to test 'blank areas' for methodological rigor in addition to positive targets.	the electromagnetic survey. The geophysical report is annexed to the DBA (annex 19). The anomalies recorded and areas highlighted as being dry (as well as their immediate proximities/interactions with wet land) will be targeted by post EIA trial trenching. Works are set out within the OWSI.
Section 42 responses	Historic England - In the Onshore Archaeology and Cultural Heritage PEIR section (Chapter 20, Outer Dowsing Document No: 6.1.20) the authors make reference in paragraph 20.4.6 (and elsewhere) to a deposit model that was prepared. This is provided in 'Volume 2, Appendix 20.1: Onshore Archaeology and Cultural Heritage Desk-Based Assessment' as Annex 23A. The assessment has been produced by AOC and appears substantially more robust than the offshore version. It is worth noting, however, that this terrestrial deposit modelling assessment is a desk-	An updated deposit model has been prepared for submission at EIA. This is annexed to the DBA (annex 18). This includes updates in reference to a monitored programme of Site Investigations undertaken post PEIR. Further updates to modelling are referenced within the OWSI.



Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
Section 42 responses	based report only. We understand there were plans to monitor a small number of geotechnical boreholes and update the model with these in the spring (see paragraph 6.19 of chapter 20), it is regrettable that update does not appear yet to have been provided. It would be better to have started to ground truth and fill in gaps in the model now, but what has provided for the onshore is significantly superior to the offshore work. Historic England - The sooner the results of geophysical survey can be integrated with desk-based assessment and deposit modelling, and targets taken forwards for trial trenching the better. To restate a point made in previous discussion, it is never possible to identify all features of archaeological interest in evaluation, but one can manage down the risk of the discovery of multiple sensitive, complex and time- consuming remains being encountered during works and the associated inefficiencies in mitigation and delivery. In particular an understanding of the detail of the historic coast and inlets / points of entry will assist greatly to identify both potential in channels and on 'dry' land sites which articulated with such points (we attach a final pre-publication copy of Caitlin Green's Coastal Landscape Report in this	Dr Cailtin Green's publication was gratefully received and has been referenced within the DBA. The use of electromagnetic survey, identifying areas of drier ground alongside possible channels will inform trial trenching which is being undertaken post EIA as referenced within the OWSI (document reference 8.9). This will inform on mitigation works with due regard to conclusions of the DBA and ES that no significant impacts are predicted where preservation in situ cannot be secured.
Section 42 responses	regard). Historic England - Regarding the understanding and management of impacts upon buried wet remains (intersected by the cable corridor) we highlight our detailed preservation guidance. It is important to stress that where the works are likely to affect the	The presence of the tidal mudflats in-particular is acknowledged as providing an area within which organic remains may be present. The Historic England publication referenced (Environmental Archaeology 2011) will be referenced within any WSIs. The OWSI references



Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
	burial environment of important remains any solution involving avoidance / excavation etc needs to be grounded in a sound understanding of the burial environment the preservation of the remains and the mechanisms for effect from the works (which may act over distance depending upon the hydrology).	protocols for dealing with wet remains to ensure their preservation (not necessarily in-situ). The hydrological environment of the footprint of disturbance and the effect of changes over a greater area has been acknowledged as far as is possible within the ES chapter with reference to findings from the hydrology, hydrogeology and flood risk chapter (document reference 6.1.24).
Section 42 responses	Historic England - A scheme wide approach to the targeting, recovery and analysis of samples to considered research questions should form a key element of the Outline written Scheme of Investigation. See our guidance and the advice of our regional Science Advisor.	The OWSI includes reference to research objectives relevant to the potential impacts of the Project. Reference is made in the OWSI to the Historic England publication referenced (Environmental Archaeology 2011) and also the East Midlands Research Framework.
Section 42 responses	Historic England - In NPS / NPPF / PPG terms it is helpful to consider the above terms to be nested, with values being the socially constructed view of assets, significance being the structured assessment (professional assessment) there-of and importance the relative worth (including designation by the state). Whilst the use of language is further complicated in the context of EIA by the use significant as an adjective, it remains useful to avoid further ambiguity in terminology. At para 5.6 second bullet for instance 'highest level of significance' would read better as 'highest level of importance'	Ambiguity in terminology – specifically the term 'significance' – has been reviewed at EIA where possible. It is acknowledged EIA references the term 'significance' to describe effects whereas Chapter 16 of the NPPF references the term 'significance' to infer importance. The term importance is used more widely at EIA.
Section 42 responses	Historic England - We welcome the initial approach to setting set out in PIER Heritage Statement in particular the flexible approach to consideration based upon judgement in preference to overly rigid	Historic Landscape Character did not form part of the PEIR baseline but has been referenced as part of EIA within the HS (6.3.20.2 annex 3).



Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
	radii. As explored in section 5 of the onshore cultural	
	heritage and archaeology section of the PEIR there is	
	much good analysis, but this could be enhanced with	
	stronger reference to a structured understanding of	
	the shifting historic landscape and the contemporary	
	siting of features there in (see the attached report by	
	Caitlin Green). Weight should be given to the	
	experience of historic places as the aggregate of	
	phases of landscape change in addition to specifically	
	contemporaneous relationships - see our GPA 3	
Section 42 responses	Historic England – Work yards/compounds. It is	The location of all works compounds have been included
	important for the effective control of environmental	within the Order Limits subject to assessment at EIA.
	impacts that the sites of ancillary facilities are	
	addressed within the scope of the ES whether to be	
	used by the principal contractor or subcontractors or	
	suppliers. There should be robust mechanisms in	
	place to ensure that secondary / unplanned for	
	additional facilities are nevertheless sited and	
	managed in accordance with the ES. It is our	
	experience that such facilities on linear projects can	
	become detached from the strategies for the	
	management of risk set out in the ES hence the need	
	for particular attention to this point.	
Section 42 responses	Historic England – duck decoys. As noted in the PEIR	Geophysical survey and historic map regression
	decoys that survive late enough to appear on OS	undertaken at EIA and presented within the DBA has
	1:2500	included the assessment of the Order Limits adjacent to
	mapping or as extant earthworks form only a fraction	the scheduled duck decoy. A possible water management
	of the extent of such features once present (compare	feature associated with the monument is shown on
	the OS1" and accounts such as the link below) a	historic mapping crossing the Order Limits, but this is a
	systematic approach to assessment in areas of	drainage feature planned for avoidance through
	survival is likely to identify additional features and	trenchless works.



Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
	water management systems	
	Historic England - The unscheduled remains believed to comprise the medieval village of Slackholme are potentially of equivalent importance to a scheduled monument and in the first instance options to avoid should be pursued, potential to pass through / under on a route at a point of least apparent survival are challenging given the inherent uncertainty of the relationship between surface expression and below ground survival and the risk of being 'locked in' to a line revealed later to be undesirable. The desirability and effectiveness of such a 'surgical' solution would depend to a large extent upon the degree to which early detailed understanding could be secured. Consideration to collateral impacts of vehicle movements, hydrological severance etc should also be considered. Overall, avoidance or direct drill options would be much preferable for identified high importance features both for the reduction of avoidable harm and the husbanding of archaeological resource to mitigate impacts revealed later which cannot so readily be avoided.	The footprint of the asset recorded by the HER and all associated earthworks would be avoided through the use of trenchless works. This is secured through Figure 3.4.7.8 and the Schedule of Mitigation (document reference 8.13). It is anticipated that directional drilling achieving a depth of 5m BGL will avoid the base of cut features. Furthermore, no works associated with haul roads are proposed within the asset.
Section 42 responses	Historic England - Consideration of terrestrial crash sites / military remains / UXO should be given alongside that afforded offshore (given the extensive aviation heritage of the area).	The EIA baseline does not reference any crash sites or military remains within the Order Limits. Nevertheless, a protocol has been included within the OWSI.
Section 42 responses	Historic England - Assumptions as to the loss of Roman Coastal features due to post-Roman inundation should be treated with caution pending the testing of survival given limited data.	Baseline assessment presented within the DBA, including deposit modelling provides data on the depth of Roman land surfaces. Portable Antiquities Scheme data (PAS) has been referenced within the DBA.



Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
	Localised unexpectedly good preservation should be allowed for. Portable Antiquities Scheme data may assist in this regard and should be consulted.	
Section 42 responses	Historic England - Considerable prior though should be given to the handling and conservation of waterlogged wood revealed, past experiences of linear schemes have involved large wooden artefacts being sat exposed for significant period due to the lack of an in-place plan for extraction and wet storage and assessment in conservation controlled conditions	A broad strategy for effective short-term measures and timely long-term solutions for the preservation of waterlogged timbers has been drawn into the OWSI. These will also be referenced in any subordinate WSIs.
Section 42 responses	Historic England - the archaeological potential of extant ridge and furrow to reveal sequence (of intercutting strips / reorganisation) or in stratigraphic relation to earlier and later boundaries should not be underestimated. There is potential for buried land surfaces to be preserved under the centre line of ridges. Where/if Ridge and Furrow is extant and to be bisected by the cable then it should be reinstated to profile.	No areas of extant ridge and furrow would be disturbed within the Order Limits.
	Historic England - The relationship of saltings of all periods to contemporary topography and water levels is crucial, prospection based upon geophysical (mag) survey and deposit modelling (often sited on rodens as dry ground) is of high importance, scientific dating strategies are clearly important as is a careful approach to excavation to identify the often ephemeral traces of contemporary seasonal (?) occupation in association with the more obvious productive remains themselves.	The presence/absence of saltings and their anticipated levels of importance are set out within the DBA. Geophysical survey has identified some potential salterns and these will be targeted by the trial trenching as referenced within the OWSI (document reference 8.9).
Section 42 responses	Historic England - All direct impacts upon scheduled monuments should be regarded as avoidable and	A proposed access track to the north of the monument and a secondary compound to the west of the monument



Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
	designed out. We note that the line of the causeway from Abbey Hills to Friskney appears to be crossed by the PEIR - there is a clear need for further investigation and discussion of options with HE as a feature of high importance (directional drill?)	are shown within the Order Limits, Figure 3.4.7.24. The potential for the preservation in situ of remains of national importance present within the construction parameters associated with these activities is set out within the Schedule of Mitigation (document reference 8.13). These acknowledge that the results of fieldwork will inform detailed design. Mitigation through preservation in situ informed by archaeological evaluation is referenced within the OWSI.
Lincolnshire County Council Section 42 Comments	Lincolnshire County Council – comments re historic map regression and LiDAR – requesting a full map regression and a full LiDAR assessment.	The EIA has included a full map regression including reference to historic Ordnance Survey and pre-Ordnance Survey maps including Tithe Maps and Inclosure Maps. These are discussed and illustrated within the DBA. The EIA has also included a full LiDAR Assessment. This is annexed to the DBA (Annex 17) and is referenced throughout the DBA. The results of LiDAR also influenced the targeting of geophysical survey in areas not otherwise selected for geophysical survey.
	Lincolnshire County Council – comments re aerial photographic assessment. Reference made to the necessity of a full competent aerial photographic assessment referencing photographs from Historic England's Archive, the Cambridge Collection and the HER.	The EIA has not included a full aerial photographic assessment. This is not considered to render the DBA 'incompetent'. The selection of baseline survey techniques presented within the DBA has taken into account the depositional environment of the Order Limits and the position of the Order Limits in reference to historic coastlines. The use of geophysical survey using magnetometer and electromagnetic survey techniques is considered to be a more useful and effective tool in determining archaeological potential in this instance. Nevertheless, sample areas of aerial photography assessment referencing the most extensive collections of



Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
		aerial photographs held at the Historic England archives
		have been undertaken within the Order Limits to provide
		some reassurance that a dual application of geophysical
		survey and aerial photographic assessment is not
		necessary to illustrate archaeological potential. This is
		presented within the DBA.
	Lincolnshire County Council – comments around trial	Trial trenching has not been undertaken as part of EIA. In
	trenching.	light of the indicative onshore infrastructure as set out in
		Figure 3.4.7, and the Schedule of Mitigation which
		accommodates the preservation in situ of remains of
		national importance along the onshore ECC between the
		TJB and the OnSS (document reference 8.13) and the
		findings of the DBA (document reference 6.3.20.1) and
		this Chapter, the necessity for fieldwork to determine the
		application is not considered necessary to further evaluate
		the significance of potential archaeology. Investigations
		will be carried out prior to construction to support the preservation in-situ commitment. Fieldwork is therefore
		scheduled for post the consent of the DCO. In these
		circumstances the baseline presented is considered
		sufficient for the determination of the DCO. Trial trenching
		is set out within the OWSI (document reference 8.9).
	Lincolnshire County Council – areas of tree planting	Areas of tree planting are anticipated to disturb to depths
	need to be included within evaluation phases	of 0.4-0.5m. The areas of tree planting are proposed at the
	including mitigation.	southern end of the Order Limits within areas not
		anticipated from coastline regressions to be within areas
		of particular archaeological potential. Nevertheless, it is
		anticipated that areas of extensive planting would be
		included for evaluation as set out within the OWSI
		(document reference 8.9).



Date and Consultation Phase/type	Consultation and key issues raised	Sections where comment addressed
	Lincolnshire County Council – general comments on	An Outline WSI for Archaeological Works has been
	the absence of an Outline WSI for Evaluation	prepared setting out evaluation and mitigation strategies
		(document 8.09).
	Lincolnshire County Council - Sufficient information	The full citation for (Regulation 5 (2d)) provides that the
	on the archaeological potential must include	paragraph cited is in reference to 'significant effects'
	evidential information on the depth, extent and	only. The ES chapter supported by a DBA has not
	significance of the archaeological deposits which will	predicted significant impacts where preservation in situ is
	be impacted by the development. The results will	not possible. Preservation in situ to prevent any impacts
	inform a fit for purpose mitigation strategy which will	which could be significant is secured through the
	identify what measures are to be taken to minimise	Schedule of Mitigation (document reference 8.13), Figure
	or adequately record the impact of the proposal on	3.4.7 and the OWSI (document 8.9). Of the two locations
	archaeological remains which must be submitted	where preservation in situ is not possible, the OnSS and
	with the EIA.	the TJB, only the TJB is located within an area where
		significant archaeology could be present and geophysical
	This is in accordance with The Infrastructure Planning	survey has demonstrated that this is unlikely.
	(Environmental Impact Assessment) Regulations	
	2017 which states "The EIA must identify, describe	
	and assess in an appropriate mannerthe direct and	
	indirect significant impacts of the proposed	
	development on material assets, cultural heritage	
	and the landscape." (Regulation 5 (2d))	



# 20.4 Baseline Environment

# 20.4.1 Study Area

- 8. The ES references 'Order Limits'. This comprises the extent of the land subject to the application for development consent. It reflects an approximately 80m wide corridor around a centre line with a total length of approximately 70km (the Onshore ECC) which runs from the landfall to the OnSS, followed by a typically 60m wide corridor around a centre line with a length of approximately 4km (the 400kV cable corridor) which will connect the OnSS to a National Grid substation (NGSS) within the Connection Area<sup>2</sup>.
- 9. The study areas for this Chapter are set out in Volume 3, Appendix 20.1: Archaeological Desk Based Assessment (document reference 6.3.20.1) and Volume 3, Appendix 20.2: Heritage Statement (document reference 6.3.20.2).
- 10. The study area for the Archaeological DBA comprised a buffer of up to 2km from the Order Limits. This parameter was established through consultation with the Lincolnshire Historic Environment Officer through their scoping response. This study area is anticipated to provide a robust baseline in respect to the known archaeological potential of the footprint of the Order Limits where ground disturbance may occur.
- 11. The study area for the HS comprised a buffer of up to 5km from the Order Limits. This was established through consultation with the Lincolnshire Historic Environment Officer through their scoping response and includes an inner 2km buffer for assets of lower significance; the 2-5km buffer being utilised for Scheduled Monuments and Grade I and II\* Listed Buildings as well as RPGs and Conservation Areas.
- The study areas are shown on Figures 20.1.1.1-20.1.1.7 in Volume 3, Appendix 20.1: Archaeological Desk-Based Assessment, and Figures 20.1.2.1-20.1.2.18 in in Volume 3, Appendix 20.2: Heritage Statement.

# 20.4.2 Data Sources

- 13. The following sources were consulted during the preparation of the Archaeological DBA and HS:
- 14. Historic England's GIS datasets for all assets of an archaeological nature (Scheduled Monuments) included on the National Heritage List for England (NHLE);
  - Lincolnshire Historic Environment Record (HER);
  - Historic Landscape Character data;
  - Portable Antiquities Scheme (PAS) data;
  - historic cartographic sources at Lincoln Archives and Boston Library;
  - Historic England's Aerial Archaeology Mapping Explorer, for mapped archaeological earthworks and other features identified by the aerial investigation unit;

<sup>&</sup>lt;sup>2</sup> This is an indicative search area for the National Grid substation (NGSS)



- Historic England's Aerial Photo Explorer, for digitised photographs from the Historic England archive;
- Historic England's collection of aerial photography held at the National Archives (for selected sections of the Order Limits within ECC2);
- the Environment Agency's library of open access LiDAR data (DSM, DTM and point cloud);
- AOC Archaeology– geoarchaeological deposit model for the Order Limits;
- Magnitude Surveys magnetometer geophysical survey;
- Magnitude Surveys electromagnetic geophysical survey; and
- Land on the edge the landscape evolution of the Lincolnshire coastline (Green 2023).

# 20.4.3 Existing Environment - Archaeology

- 15. The Archaeological DBA (Volume 3, Appendix 20.1 (document reference 6.3.20.1)) sets out an archaeological background to understand the archaeological sensitivity of the Order Limits. The resources for assessment included HER & PAS data, a targeted site walkover survey, a LiDAR assessment and aerial photography review, a geoarchaeological deposit model including observations from site investigations, a magnetometer geophysical survey and an electromagnetic geophysical survey.
- 16. Alongside secondary and primary material including a review of historic mapping, these sources are considered to provide an extensive and robust baseline on which to consider archaeological potential/risk.
- 17. With regards to secondary material, a particular acknowledgement is extended to the work of Dr Caitlin Green which is referenced extensively within the Archaeological DBA.
- 18. The summary potential of the study area as indicated by the baseline is summarised below. For full details the reader is referred to document 6.3.20.1.

# 20.4.3.1 Overall Archaeological Potential Summary

- 19. The location of the Order Limits on a coastline which has seen significant periods of marine transgression and regression has resulted in complex and thick sequences of interchanging alluvium and peat, covering deeply buried prehistoric and later land surfaces.
- 20. Episodes of sea flooding since the end of the Mesolithic into the medieval period have deposited substantial deposits of mud flats across the entirety of the Project footprint. The first period of mudflat deposition occurred during the prehistoric period when the high-water mark became established 5-10km west of the current coastline (Green 2023). This earlier mudflat is referenced as deposit A1 in the deposit modelling referenced within the DBA. The coastline subsequently moved in and out with further episodes of sea transgression and regression which are anticipated to have affected all of the Order Limits at some point, with the southern part of the Order Limits under water or tidal from the late Mesolithic onwards.



- 21. A notable period of regression occurred in the Iron Age/Roman period when the high-water mark is known to have moved eastwards, placing some of the Order Limits which had been marshland or tidal since the Neolithic period, into dry land once more. However, the southern end of the Order Limits remained tidal or under water. A later phase of mud deposition, likely post Roman in date, is anticipated to have occurred when sea flooding into the Anglo Saxon and medieval periods caused the high-water mark to move west again. This is referenced within the deposit modelling set out within the DBA as deposit A2.
- 22. These sequences of dramatic depositional events have buried earlier archaeology at some significant depth across much of the Order Limits footprint with some areas, such as the southern end of the Order Limits being under water or tidal conditions from the Mesolithic to the Post Medieval period.
- 23. Medieval activity was made possible through the construction of sea walls with extant earthworks or below ground potential for sea walls identified in segments ECC1 & ECC11-13. These would have contributed to bringing the whole of the Order Limits into possible agricultural or pastoral activity apart from the southern extremity which was likely within the footprint of the Bicker Haven – ECC13/14. Settlement is known to have become established at extant historic villages within the vicinity of the Order Limits at this time and evidence for some deserted settlement extending within the Order Limits is known at ECCC2, ECC3 and ECC6. Evidence for significant moated sites is provided by two scheduled examples comprising Abbey Hills moated site (NHLE 1016044) adjacent to ECC7 and Multon Halll moated site (NHLE 1018584) located 100m west of ECC11.
- 24. Post medieval activity references land reclamation and agricultural activity across the entirety of the Project footprint. This includes some potential for remains of demolished farmsteads and other agricultural buildings. This period likely saw the first occupation of the southern parts of the route, specifically ECC13/14.
- 25. Table 20.3 presents a simplified illustration of archaeological potential with due regard to the outline construction proposals presented in Figure 3.4.7.

#### Prehistoric (up to 750BC)

- 26. Only at isolated and specific locations within the Order Limits would the Proposals have the potential to disturb stratigraphy of possible early prehistoric date. At these discrete locations worked flint of Palaeolithic and Mesolithic and possible short term features date may be present. These areas are at locations where the proposals have the potential to breach the base of the earliest mud flat deposit. This may occur at the following locations and assumes project parameters as set out in Table 20.4.
  - Trenchless crossing entry and exit pits in -
    - ECC1 (part of)
    - ECC2
    - ECC3 (part of)



- ECC5 (part of)
- ECC6 (part of)
- ECC7
- ECC8
- ECC9 (part of)
- ECC10 (part of)
- ECC11 (part of)
- ECC13 (part of)
- ECC14 (part of)
- Joint bays in -
  - ECC7 (part of)
  - ECC8 (part of)
- Open cut trenching in -
  - ECC7 (part of)
  - ECC8 (part of)
  - ECC10 (part of)
- OnSS piled foundations in excess of 10.5 BGL
- 27. Later prehistoric worked flint and wooden artefacts such as fishtraps and jetties may survive within the waterlogged stratigraphy of the earlier mudflat. These artefacts would represent episodes of transient activity from the Mesolithic period onwards. These may be present where the works could breach the later mud deposit and potentially affect stratigraphy of the earlier mud flat deposit. This may occur at the following locations and assumes worst case project parameters.
  - TJB in ECC1.
  - OnSS in ECC13.
  - Open cut trenching in
    - parts of ECC1, 9, 12, 13.
    - all of ECC2, 3, 4, 5, 6, 7, 8, 10, 11
  - Joint bays in
    - parts of ECC1, 2, 9, 13, 14
    - all of ECC3, 4, 5, 6, 7, 8, 10, 11, 12.
  - Trenchless entry and exit pits in -



- parts of ECC9, 13, 14
- all of ECC1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12.

# Iron Age to Roman (750BC to c.410 AD)

- 28. Iron Age occupation/agricultural activity may be present sealed by the later mudflat and could be exposed where the works may breach the base of the later mudflat deposit. Based on the results of baseline assessment including the results of geophysical survey and the variable location of the Order Limits in relation to the high-water mark at this time it is anticipated that Iron Age occupation or agricultural activity could be present where the later mudflat (deposit A2) could be breached by the following works in.
  - Open cut trenching in
    - parts of ECC1
    - all of ECC2, 3, 4, 5, 6.
      - this includes area of archaeological interest 2 in ECC2.
  - Joint bays in
    - parts of ECC1, 2
      - this includes area of archaeological interest 2 in ECC2.
    - all of ECC3, 4, 5, 6
  - Trenchless entry and exit pits in
    - all of ECC1, 2, 3, 4, 5, 6
      - this includes area of archaeological interest 2 in ECC2.
- 29. Potential Roman occupation and agricultural activity may extend into the footprint of the Order Limits in segments ECC1-ECC10 reflecting marine regression which pushed the high-water mark east in the northern and central parts of the Order Limits. On the premise that these are covered by the later mudflats these would be affected where the works could breach the later mudflat in areas where the Roman high-water mark is anticipated to the east of the Order Limits. With regard to baseline assessment including the results of the geophysical survey this would potentially be restricted to works within the footprint of the following:
  - Open cut trenching in
    - parts of ECC1, 9.
    - all of ECC2, 3, 4, 5, 6, 7, 8, 10.
      - this includes area of archaeological interest 2 in ECC2 & area of archaeological interest 8 in ECC6.
  - Joint bays in
    - parts of ECC1, 2, 9



- this includes area of archaeological interest 2 in ECC2.
- all of ECC3, 4, 5, 6, 7, 8, 10.
  - this includes area of archaeological interest 8 in ECC6.
- Trenchless entry and exit pits in
  - all of ECC1, 2, 3, 4, 5, 6, 7, 8, 9, 10.
    - this includes area of archaeological interest 2 in ECC2, area of archaeological interest 8 in ECC6 and area of archaeological interest 12 ECC8.
- 30. Iron Age/Roman salterns could be possible within the footprint of the order Limits in segments ECC1-14. On the premise that these are covered by the later mudflats these would be within deposits breached by the following Project parameters. This includes AOP A1 of the deposit modelling plus areas north of this where the early tidal mud flat may be breached. With regards to the results of baseline assessment including the results of geophysical survey, salterns could be present at the following locations:
  - TJB in ECC1.
  - OnSS in ECC13.
  - Open cut trenching in
    - parts of ECC1, 9, 12, 13, 14.
    - all of ECC2, 3, 4, 5, 6, 7, 8, 10, 11.
      - this includes areas of archaeological interest 2 & 4 in ECC2, areas of archaeological interest 6 & 7 in ECC5 and other specific anomalies in ECC3.
  - Joint bays in
    - parts of ECC1, 2, 9, 13, 14.
    - all of ECC3, 4, 5, 6, 7, 8, 10, 11, 12.
      - this includes area of archaeological interest 2 in ECC2 and areas of archaeological interest 6 & 7 in ECC5 and other specific anomalies in ECC3.
  - Trenchless entry and exit pits in
    - parts of ECC9, 13, 14.
    - all of ECC1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12.
      - this includes area of archaeological interest 2 in ECC2 and areas of archaeological interest 6 & 7 in ECC5 and other specific anomalies in ECC3.

# Anglo-Saxon (c.410 AD to 1066)

31. A wetter character to the central and northern parts of the route is likely to have returned during the Anglo-Saxon period when the sea levels encroached once more. This likely rendered the majority of the Project footprint marginal with settlement favouring slightly elevated land which



does not appear to have extended into the footprint of the Project. Some potential for agricultural/pastoral activity may extend to segments ECC2, 7, 8 & 9. Salterns may be present in segments ECC1-14 (inclusive).

## Medieval (1066-1485)

32. Areas identified through geophysical survey which could include medieval activity comprise areas of archaeological interest 1 (ECC1), 2 (ECC2), 3 (ECC2), 4 (ECC2), 5 (ECC3), 6 (ECC5), 8 (ECC5/6), 9 (ECC7), 10 (ECC6), 11 (ECC9/10) and potentially 12 (ECC8). Conditions would have allowed the continued presence of salterns along tidal creeks in most of the Order Limits except potentially large parts of segments ECC2-ECC4. Saltern geophysical anomalies which could be of medieval date are located in areas of archaeological interest 6 (ECC5) & 7 (ECC5). Other geophysical anomalies in area of archaeological interest 11 (ECC10) could reference salt making of this date.

## Post Medieval (1485-modern)

33. Post medieval activity references land reclamation and agricultural activity across the entirety of the Project footprint. This includes some potential for remains of demolished farmsteads and other agricultural buildings. This period likely saw the first occupation of the southern parts of the route, specifically ECC13/14. Areas identified through geophysical survey which could include post medieval remains comprise areas of archaeological interest 1 (ECC1), 8 (ECC6) and 12 (ECC8).

#### Peat and Palaeochannels

- 34. Also, of note, are the potential deposits of peat which could be present between the tidal mudflats or interleaved within them. Peat deposits could potentially be present within the Project parameters bar the haul roads and the compounds across the Order Limits. The deposit modelling identifies particularly thick areas of peat deposits (Annex 18 Figure 47-49). The thickness of these deposits likely infers where the most stable wetland habitats were located. These areas are where the potential for organic preservation may be greater. Thinner deposits located elsewhere may infer less stable areas or areas where erosion caused by inter-tidal process has affected the accumulation and survival of peat. The electromagnetic geophysical survey may be useful in indicating areas where the preservation of organic material in areas of peat is most likely. These are high conductivity areas shown in blue on the geophysical figures (Annex 19).
- 35. The peat has the potential to hold the same artefacts discussed for the waterlogged deposits of mud, namely fishtraps, jetties and trackways but also (alongside the waterlogged deposits in general) deposits with paleoenvironmental potential which could inform on past landscapes and environments. The thicker areas of peat referencing more stable areas of wetland, not affected by more energetic tidal or fluvial processes, would hold a greater potential. The deposits associated with the palaeochannels across the Order Limits could also inform on landscape change over time and depositional sequences from the prehistoric period onwards.



Table 20.3: Archaeological Potential Summary Table

Project Parameter	Prehistoric Potential*	Roman Potential*	Anglo Saxon Potential*	Medieval Potential*	Post Medieval Potential*	Peat & Palaeochannels
ECC1						
TJB	✓ T/S	✓S	S	A (AAI 1?)	А	✓
TRENCHLESS exit	✓ P/A/T/S	✓ P/A/S	]	S (AAI 1?)	<b>PMF</b> (MLI118799)	
TRENCHLESS entry	✓ P/A/T/S	✓ P/A/S	]	SW	(WEIT10799)	
Open Cut	✓ p/a/t/s	✓ p/a/s				
JB	✓ p/a/t/s	✓ p/a/s				
HR	X	X				
Compounds	Х	X	]			
ECC2						
TRENCHLESS exit	✓ P/A/T/S (AAI 2)	✓ <b>P/A/S</b> (AAI 2)	S	A	A	$\checkmark$
TRENCHLESS entry	<b>√P/A/</b> T/ <b>S</b> (AAI 2)	✓ <b>P/A/S</b> (AAI 2)	A	<b>P</b> (AAI 4)		
Open Cut	<b>√P/A/</b> T/ <b>S</b> (AAI 2)	✓ P/A/S (AAI 2)	_ P			
JB	<b>√p/a/t/s</b> (AAI 2)	✓ p/a/s (AAI 2)				
HR	X	X				
Compounds	X	X				
ECC3						
TRENCHLESS exit	✓ P/A/T/ <b>S</b>	✓ P/A/ <b>S</b>	S	A	A	✓
TRENCHLESS entry	✓ P/A/T/ <b>S</b>	✓ P/A/ <b>S</b>	]	Р	M	
Open Cut	✓ P/A/T/ <b>S</b>	✓ P/A/ <b>S</b>	]		<b>PMF</b> (LiDAR 16) and windmill	
JB	✓ P/A/T/ <b>S</b>	✓ P/A/ <b>S</b>	]			
HR	X	X				



Project Parameter	Prehistoric Potential*	Roman Potential*	Anglo Saxon Potential*	Medieval Potential*	Post Medieval Potential*	Peat & Palaeochannels
Compounds	Х	Х				
ECC4			·	·		
TRENCHLESS exit	✓ P/A/T/S	✓ P/A/S	S	A	A	$\checkmark$
TRENCHLESS entry	✓ P/A/T/S	✓ P/A/S		S		
Open Cut	✓ P/A/T/S	✓ P/A/S				
JB	✓ P/A/T/S	✓ P/A/S				
HR	X	X				
Compounds	X	X				
ECC5						
TRENCHLESS exit	✓ P/A/T/ <b>S</b> (AAI 6? &7?)	✓ P/A/ <b>S</b> (AAI 6?&7?)	S	A <b>S</b> (AAI 6?&7?)	A PMF	*
TRENCHLESS entry	✓ P/A/T/ <b>S</b> (AAI 6?&7)	✓ P/A/ <b>S</b> (AAI 6?&7?)			(MLI120254)	
Open Cut	✓ P/T/ <b>S</b> (AAI 6?&7?)	✓ P/A/ <b>S</b> (AAI 6?&7?)				
JB	✓ P/T/ <b>S</b> (AAI 6?&7?)	✓ P/A/ <b>S</b> (AAI 6?&7?)	_			
HR	Х	X	_			
Compounds	Х	X	_			
ECC6	•		•	•		
TRENCHLESS exit	✓ P/A/T/S	✓ P/ <b>A</b> /S (AAI 8?)	S	A (AAI 8?)	A (AAI 8?)	<ul> <li>✓</li> </ul>
TRENCHLESS entry	✓ P/A/T/S	✓ P/ <b>A</b> /S (AAI 8?)		S	PMF	
Open Cut	✓ P/A/T/S	✓ P/ <b>A</b> /S (AAI 8?)		<b>P</b> (10)	(MLI124352)	
JB	✓ P/A/T/S	✓ P/ <b>A</b> /S (AAI 8?)				



Project Parameter	Prehistoric Potential*	Roman Potential*	Anglo Saxon Potential*	Medieval Potential*	Post Medieval Potential*	Peat & Palaeochannels
HR	Х	Х				
Compounds	X	Х				
ECC7					·	
TRENCHLESS exit	✓ T/S	✓ P/A/S	S	A	A	$\checkmark$
TRENCHLESS entry	✓ T/S	✓ P/A/S	A	S		
Open Cut	✓ T/S	✓ P/A/S		<b>P</b> (AAI 9?) M		
JB	✓ T/S	✓ P/A/S	7			
HR	X	X	7			
Compounds	X	X				
ECC8			-		-	
TRENCHLESS exit	✓ T/S	✓ P <b>/A</b> /S (AAI 12?)	S	<b>A</b> (AAI 12?)	A	$\checkmark$
TRENCHLESS entry	✓ T/S	✓ P <b>/A</b> /S (AAI 12?)	A	S	<b>PMF</b> (MLI124527)	
Open Cut	✓ T/S	✓ P <b>/A</b> /S			(ML124327) (AAI 12?)	
JB	✓ T/S	✓ P <b>/A</b> /S			,	
HR	X	X				
Compounds	X	X				
ECC9	·				·	
TRENCHLESS exit	t/s	✓ P/A/S	S	<b>A</b> (AAI 11?)	A	$\checkmark$
TRENCHLESS entry	t/s	✓ P/A/S	A	S	<b>PMF</b>	
Open Cut	t/s	✓ p/a/s	1		(MLI124196) LiDAR 35	
JB	t/s	✓ p/a/s	1		LiDAR 37	
HR	Х	Х	1			
Compounds	Х	Х	1			



Project Parameter	Prehistoric Potential*	Roman Potential*	Anglo Saxon Potential*	Medieval Potential*	Post Medieval Potential*	Peat & Palaeochannels
ECC10						
TRENCHLESS exit	✓ T/S	✓ P/A/S	S	<b>A</b> (AAI 11?)	A	✓
TRENCHLESS entry	✓ T/S	✓ P/A/S		<b>S</b> (AAI 11?)	PMF (MLI124228/LiDA	
Open Cut	✓ T/S	✓ P/A/S	_		R 39)	
JB	✓ T/S	✓ P/A/S	_			
HR	Х	Х	_			
Compounds	Х	Х	_			
ECC11	L			L		1
TRENCHLESS exit	✓ T/S	✓S	S	SW	А	<ul> <li>✓</li> </ul>
TRENCHLESS entry	✓ T/S	✓S		S A		
Open Cut	✓ T/S	√ S	_			
JB	✓ T/S	✓S				
HR	Х	Х				
Compounds	Х	Х	_			
ECC12	L	<b>I</b>	•	-	-	
TRENCHLESS exit	✓ T/S	✓S	S	SW	A	<ul> <li>✓</li> </ul>
TRENCHLESS entry	✓ T/S	✓S		S	PMF (MLI123126/LiDA	
Open Cut	✓ t/s	√ s		A	R 51)	
JB	✓ T/S	√ S				
HR	Х	X				
Compounds	Х	X				
ECC13	•				•	
OnSS	✓ T/S	✓S	S	SW	A	$\checkmark$



Project Parameter	Prehistoric Potential*	Roman Potential*	Anglo Saxon Potential*	Medieval Potential*	Post Medieval Potential*	Peat & Palaeochannels
TRENCHLESS exit	✓ t/s	✓ s		S		
TRENCHLESS entry	✓ t/s	√ s				
Open Cut	✓ t/s	√ s				
JB	✓ t/s	√ s				
HR	X	X				
Compounds	Х	X				
ECC14			•			
TRENCHLESS exit	✓ t/s	√ s	S	SW	А	✓
TRENCHLESS entry	✓ t/s	√ s		S	<b>TW</b> (MLI22401/LiDA	
Open Cut	✓ t/s	√ s	-		(MEI22401/EIDA R 59) PMF LiDAR 60	
JB	✓ t/s	√ s				
HR	Х	X				
Compounds	Х	X				
A16		·	·		·	·
Compound	Х	Х	A	A	A	X
	<ul> <li>P = permanent activity</li> <li>A = agricultural/pastoral activity</li> <li>T = transient activity</li> <li>S = salterns</li> <li>PL = palaeochannel</li> <li>PT = peat</li> <li>X = no potential</li> <li>*capital letters reference general segment</li> <li>wide potential for specified project</li> <li>parameter. Lowercase letters represent</li> </ul>		<ul> <li>P = permanent activity (occupation)</li> <li>A = agricultural/pastoral activity</li> <li>S = salterns</li> <li>PL = palaeochannel</li> <li>PT = peat</li> <li>SW = sea walls</li> <li>PMF = post medieval farmstead with HER 'MLI' reference cited</li> </ul>			ence cited
			M = mill identifie			



Project Parameter	Prehistoric Potential*	Roman Potential*	Anglo Saxon Potential*	Medieval Potential*	Post Medieval Potential*	Peat & Palaeochannels
	restricted potential due to depths of later mudflats.		LiDAR = LiDAR feature identified in the DBA X = no potential *capital letters reference general segment wide potential.			
	unless morphology	s identified sites (geoph is clear and anomalies jical interest with a '?' if	concur with other I	baseline data, ho		ophysical anomalies brackets) do reference the



# 20.4.4 Existing Environment - Cultural Heritage

- 36. Cultural Heritage receptors are typically those that may be affected by changes in 'setting', as opposed to archaeological receptors typically affected by direct impacts referenced in the Section 20.4.3.
- 37. Cultural Heritage receptors primarily include assets of a built heritage nature, designated and non-designated. However, other types of asset may also be sensitive to setting change, particularly if they have earthworks and are tangible features where understanding is clearly evidenced by visible landscape features or associated earthworks.
- 38. Also considered under the 'Cultural Heritage' umbrella are Historic Landscape Character (HLC) and hedgerows important under the historic criteria of the Hedgerow Regulations. HLC can be affected by direct and indirect impacts, whilst hedgerows are typically affected by direct impacts.
- 39. The HS presented within Volume 3, Appendix 20.2 (document reference 6.3.20.2) sets out the designated and non-designated heritage assets within a search area of 2km-5km from the Order Limits for which consideration of sensitivity was given. These are shown on Figure 20.2.1 and 20.2.2.
- 40. The assets specified below represent the worst-case scenario of the number of assets potentially affected by the Project, primarily through changes in setting but in respect to certain assets such as HLC and hedgerows physical impact too.

## 20.4.4.1 Scheduled Monuments

- 41. The following is a list of scheduled monuments which are located within the study area:
  - ECC6 Decoy Wood decoy pond (NHLE 1019098) 30m west of the Order Limits.
  - ECC7 Abbey Hills Moated Site (NHLE 1016044) adjacent to Order Limits (compound and temporary access).
  - ECC8 King's Hill Motte and bailey castle (NHLE 1018398) 500m north Order Limits.
  - ECC11 Moulton Hall moated site (NHLE reference 1018584) 110m west of the Order Limits.
  - ECC13/14 Wykeham Chapel (NHLE reference 1019096) 1.4km south-west of Order Limits.
  - ECC13/14 Pinchbeck Engine (NHLE reference 1004966) 2.8km south-west.
  - ECC14 Elloe Stone (NHLE reference 1005037) 3.3km south-east of Order Limits.

#### 20.4.4.2 Listed Buildings

- 42. The following is a list of listed buildings which are located within the study area:
  - ECC9 Grade I Listed Building Church of St James (NHLE 1308415) 400m north of Order Limits.
  - ECC10 Grade II Listed Building Coupledyke Hall (NHLE 1308426) 500m south of the Order Limits.



- ECC12 Grade II Listed Building Suffolk House (NHLE reference 1062020) 180m south of the Order Limits.
- ECC12 Grade II Listed Building Middlecott's Hospital (NHLE reference 1317493) 25m west of Order Limits.
- ECC13 Grade I Listed Building The Wykeham Chapel of St Nicholas (NHLE reference 1064471) – 1.6km south-west of the Order Limits.
- ECC13 Grade I Listed Building Church of St Lawrence (NHLE reference 1064403) 3.6km west of the Order Limits.
- ECC13/14 Grade II Listed Building Pigeoncote to the south of Wraggmarsh House (NHLE reference 1064477) 80m from the Order Limits.
- ECC13/14 Grade II Listed Building The Gables (NHLE reference 1146546) 100m west of the Order Limits.
- ECC13/14 Grade II Listed Building Wraggmarsh House Farmhouse (NHLE reference 1147603) – 90m east of Order Limits

#### 20.4.4.3 Conservation Areas

43. The following is a list of Conservation Areas which are located within the study area:

- ECC11 & A6 compound Frampton 520m west of Order Limits.
- ECC13 Gosberton 2.7km west of Order Limits.
- ECC14 Moulton 2.7km south of Order Limits.

#### 20.4.4.4 Non-Designated Farmhouses

44. The following is a list of non-designated farmhouses which are located within the study area:

- ECC1 Lowgate Farm (HER reference MLI118859) 110m north of the Order Limits.
- ECC1 Chestnut Farm (HER reference MLI118860) 75m east of the Order Limits.
- ECC1 Quaker's Hill Farmhouse (MLI118805) 290m east of the Order Limits.
- ECC2 Field Farm (MLI118858) 55m west of the Order Limits.
- ECC2 un-named farmstead (MLI118865) 170m east of the Order Limits.
- ECC2 Malt Farm (MLI118869) 160m west of the Order Limits.
- ECC2 Slackholme End House Farm (MLI118880) 150m west of the Order Limits.
- ECC2 Jasmine Cottage (MLI118883) 275m west of the Order Limits.
- ECC2 Willcox Farm (MLI119832) 260m east of the Order Limits.
- ECC2 The Grange (MLI41973) 240m east of the Order Limits.
- ECC3 Fir Tree Farm (MLI119851) 145m east of the Order Limits.
- ECC3 Bristol Farm (MLI119871) 190m south of the Order Limits.
- ECC4 Rookery Farm (MLI120243) 215m north of the Order Limits.
- ECC4 Rivulet House (MLI120244) –270m west of the Order Limits.



- ECC4 Bank House (MLI120267) 250m south-west of the Order Limits.
- ECC5 Sycamore Lodge (MLI120271)– 190m south-west of the Order Limits.
- ECC6 Decoy Farm (MLI124366)– 260m west of the Order Limits.
- ECC7 Willoughby Farm (MLI1124362)– 70m north-west of the Order Limits.
- ECC7 Avenue Farm (MLI1124368)– 90m west of the Order Limits.
- ECC7 Walnut Farm (MLI1124369)– 170m south of the Order Limits.
- ECC7 Bleak House (MLI124370)– 110m south of the Order Limits.
- ECC7 Hawthorn Farm (MLI124441)– 80m south of the Order Limits.
- ECC8 Farmstead (MLI124437)– 70m south of the Order Limits.
- ECC8 Farmstead (MLI124438)– 20m west of the Order Limits.
- ECC8 Farmstead (MLI124526) 160m west of the Order Limits.
- ECC8 Old Leake Farmstead (MLI124541)– 100m north of the Order Limits.
- ECC8 Faunt Bridge Cottage (MLI124506)– 90m west of the Order Limits.
- ECC9 Swinedike Farm (MLI124199)– 45m east of the Order Limits.
- ECC9 Reesons Farmstead (MLI124216)– 215m east of the Order Limits.
- ECC9 Ings Farm (MLI124255) 210m west of the Order Limits.
- ECC9 Little Beeches (MLI124256)– 260m west of the Order Limits.
- ECC11 Marsh Farm (MLI121210) 170m south of the Order Limits.
- ECC11- Sandholme Farm (MLI123089)– adjacent to the Order Limits.
- ECC11- White House Farm (MLI123119)– 160m west of the Order Limits.
- ECC12 Lloyds Farm (MLI123128)– 120m north of the Order Limits.
- ECC13 Hills Farm (MLI122565) adjacent to the Order Limits.
- ECC13 Old Three Tuns Farm (MLI122568)– 10m south of the Order Limits.
- ECC13 un-named farm (MLI122577)– 300m south of the Order Limits.
- ECCC13 Woad farm (MLI122578)– adjacent to the Order Limits.
- ECCC13 Welland House farm (MLI122570)– 135m north of the Order Limits.
- ECC13 Vicarage Farm (MLI122878)– 20m north of the Order Limits.
- ECC13 Surfleet farm (MLI122569)– 120m west of the Order Limits.
- ECC13 un-named farm (MLI122909)– 240m east of the Order Limits.
- ECC13 Manor Farm (MLI122876) 20m north of the Order Limits.
- ECC14 Bottom Yard (MLI122915) 150m east of the Order Limits.
- A16 Compound Old Farm (MLI121208)– 90m west of the Order Limits.



## 20.4.4.5 Non-Designated Medieval Earthworks/Enclosures

- 45. The following is a list of non-designated medieval earthworks/enclosures which are located within the order limits:
  - ECC2 potential remains of medieval enclosures within the Order Limits (HER reference MLI98638).
  - ECC2 potential remains of medieval enclosures and a field system within the Order Limits (HER reference MLI98639).

#### 20.4.4.6 Non-Designated Sea-banks/Drains

- 46. The following is a list of non-designated sea-banks/drain which are located within or abutting the order limits:
  - ECC1 sea bank in Anderby within the Order Limits (HER reference MLI88782)
  - ECC11 two sections of sea wall earthworks including the Roman Bank (MLI97710) crossing the northern part of the segment and another section to the south of Multon Hall Scheduled Monument abutting the Order Limits.
  - ECC12 –two sections of sea wall/drain earthworks at Hundred Acre Farm and through the southern part of the segment – within the Order Limits.
  - ECC13 sea wall earthworks (site observations) abutting the Order Limits.

## 20.4.4.7 Non-Designated Deserted Medieval Villages

- 47. The following is a non-designated deserted medieval village located within the order limits:
  - ECC2 potential remains of Slackholme village within the Order Limits (HER reference MLI99418).

#### 20.4.4.8 Non-Designated – Medieval Roads

- 48. The following is a list of non-designated medieval roads which are located within the order limits:
  - ECC6 possible medieval drove road (MLI90647) within the Order Limits.
  - ECC9 possible medieval road (MLI13280) within the Order Limits.

#### 20.4.4.9 Non-Designated – Other

- 49. The following is a list of non-designated other features which are located within the order limits:
  - ECC7 possible mill mound and pond (MLI41778) within the Order Limits.
  - General Order Limits HLC character areas and hedgerows important under the historic criteria.

# 20.4.5 Future Baseline

50. In a do-nothing scenario any archaeological receptors listed above would remain within a buried horizon or within above ground earthworks. These would be subject to natural erosion and drainage fluctuations. Arable activity may cause manmade erosion in some instances where remains are exposed or shallow.



51. In a do-nothing scenario any setting elements that currently contribute towards the significance of the cultural heritage assets listed above would be retained.

# **20.5** Basis of Assessment

- 20.5.1 Scope of the Assessment
- 52. The following impacts have been scoped into this assessment:
  - Construction:
    - Impact 1: Permanent direct impacts to buried archaeological remains through the construction of the landfall, onshore ECC, OnSS and 400Kv cable corridor.
    - Impact 2: Temporary indirect impacts to designated and non-designated heritage assets through setting change caused by the construction of the ECC and OnSS.
    - Impact 3: Temporary direct impact to non-designated heritage assets through the construction of the landfall, onshore ECC, OnSS and 400Kv cable corridor.
  - Operation and maintenance:
    - Impact 1: Permanent indirect impacts to designated and non-designated heritage assets through setting change caused by the presence of the OnSS.
  - Decommissioning:
    - Impact 1: Temporary indirect impacts to designated and non-designated heritage assets through setting change caused by the demolition of the OnSS.
    - Impact 2: Permanent direct impacts to buried archaeological remains through the removal of infrastructure.
- 53. In line with the Scoping Opinion (The Planning Inspectorate, 2022), and based on the receiving environment, expected parameters of the Project (Chapter 3 (document reference 6.1.3)), and expected scale of impact/potential for a pathway for effect on the environment, the following impacts have been scoped out of the assessment:
  - Construction:

- Transboundary heritage effects.
- Operation and maintenance:
  - Indirect impacts to designated and non-designated heritage assets through setting change caused by the offshore turbines and ORCPs.

# 20.5.2 Realistic Worst-Case Scenario

- 54. The following section identifies the MDS in environmental terms, defined by the project design envelope. The MDS is outlined in Chapter 3 Project Description (document reference 6.1.3) and the following parameters are supported by the following figure that can be found in ES Volume 2:
  - Figure 3.4 Indicative Onshore Infrastructure (document reference 6.2.3.4)



This figure outlines the indicative infrastructure layers as well as associated IDs that have been assigned to each infrastructure element for reference throughout this chapter and the ES. Where an ID is relevant to this figure it is presented in square brackets e.g. [PCC-1].



## Table 20.4: Maximum design scenario for Onshore Archaeology and Heritage for the Project alone

Potential effect Maxi	imum adverse scenario assessed	Justification
Construction		
Impact 1: Permanent direct impacts to buried archaeological remains through the construction of the ECC, OnSS, and National grid Connection area including the 400kV connection.Land o o o OnshOnsh	<ul> <li>A Landfall Compound [PCC-1] up to 70,000m<sup>2</sup> located to the west of Roman Bank and comprising up to six Transition Joint Bays (TJBs) each with a maximum area of 207m<sup>2</sup> and total area of 1,242m<sup>2</sup>.</li> <li>A temporary Duct Storage Compound (40,000m<sup>2</sup>) [SCC-2], where in the event of a pushdown installation (Chapter 3 Project Description), the ducts for the landfall installation will be assembled and stored.</li> <li>hore ECC &amp; 400Kv cable corridor</li> <li>The onshore ECC comprises a typically 80m working width, however the corridor widens at landfall, major trenchless crossing locations and at the OnSS.</li> <li>The 400kV cable corridor is a typically 60m working width. The corridors each comprise up to 12 cables divided between up to 4 circuits each set in a separate trench each 5m wide and of variable depth.</li> <li>The working width of the onshore ECC and 400Kv cable corridor also includes in places a typically 6.8m wide haul road (up to 9m at passing places) and stockpiling areas associated with cable construction.</li> <li>The onshore ECC is approximately 70km in length and includes up to 680 joint bays, the 400kV cable corridor is approximately 4km in length and includes up to 20 joint bays with a maximum footprint of 234m2 and up to 2.5m deep.</li> <li>Up to 8 PCCs and 20 SCCs will be required across the onshore Order limits. The land take for each of the Primary Construction Compounds (PCCs) will be up to 45,000m<sup>2</sup> and for Secondary Construction Compounds (SCCs) will be up to 4,800m<sup>2</sup>.</li> <li>Trenchless techniques will be deployed in 216 locations and the remainder of the onshore ECC will be constructed using open cut trenching.</li> </ul>	The maximum dimensions of disturbance will allow for the worst-case scenario of disturbance in the assessment of impact to potential buried archaeological remains.



Potential effect	ntial effect Maximum adverse scenario assessed			
	locations in the Project's design basis with up to 321 CICs. CICs will be of variable size with a footprint of up to 4,000m <sup>2</sup> .			
	The cut for the cable trenches is anticipated to be a maximum of 3m bgl and 5m wide at the surface – 1.5m wide at the base.			
	<ul> <li>Trenchless entry pits are expected to be a maximum footprint of 200m<sup>2</sup> to a depth of 6m.</li> </ul>			
	OnSS			
	An OnSS Primary Construction Compound (OnSS PCC) [PCC-29] with an area of up to 40,000m <sup>2</sup> to be located to the northeast and south of the OnSS.			
	<ul> <li>Once the OnSS PCC is reinstated, a portion (5,400m<sup>2</sup>) of this area will be retained for an additional period of 15 months.</li> </ul>			
	Access route from the A16 at the Newlands Road junction, where there will be an OnSS Security & Logistics Compound [PCC-30] with a maximum footprint of 2,400 m <sup>2</sup> . A permanent access road from Surfleet Bank into the OnSS will be up to 8m wide and designed to provide access throughout the operational life of the substation.			
	<ul> <li>Air Insulated Switchgear (AIS) and Gas Insulated Switchgear (GIS) options in the design envelope:</li> </ul>			
	<ul> <li>GIS OnSS with a footprint of approximately 270m x 268.5m (72,600m2) footprint and maximum height of buildings / equipment at 16.5m.</li> </ul>			
	<ul> <li>AIS OnSS with a footprint of approximately 285m x 325m (144,000m2) and maximum height of height of buildings / equipment at 13m.</li> </ul>			
	<ul> <li>Disturbance through tree planting, boundary fencing, and SUDS with depths of disturbance extending to 0.4-0.5m.</li> </ul>			
Impact 2: Temporary	Construction activity would predominantly be anticipated to extend across a 12-hour working	Consideration of all potential effects on the sensory		
designated and non- designated heritage				
assets through setting	and through anti-			
change caused by the construction of the ECC,	<ul><li>The creation of spoil mounds resulting in visual change; and</li><li>Light spillage from any temporary lighting required during Winter months.</li></ul>	understanding of significance.		



Potential effect	Maximum adverse scenario assessed	Justification
OnSS, and National Grid connection area.	Direct impact to one part of an asset affecting the 'setting' of other parts for example breach or severance of component parts (temporary nature assumes reinstatement).	
Impact 3: Temporary direct impact to non- designated heritage assets through the construction of the landfall, onshore ECC , OnSS and 400Kv cable corridor	As per Impact 1	The maximum dimensions of disturbance will allow for the worst-case scenario of disturbance in the assessment of impact to hedgerows important under the historic criteria and Historic Landscape Character.
Operation and Maintenan	ce	
Impact 1: Permanent indirect impacts to designated and non- designated heritage assets through setting change caused by the presence of the OnSS	<ul> <li>The Project would result in the presence of the following elements which could be located within the setting of a cultural heritage receptor:</li> <li>OnSS Gas Insulated building- the permanent above ground infrastructure would extend to an anticipated maximum of 16.5m above ground level. All other equipment (e.g., transformers, switchgear) would not exceed a height of 19m above ground level.</li> <li>OnSS Air Insulated building- the permanent above ground infrastructure would extend to an anticipated maximum of 13m above ground level.</li> <li>OnSS - tree planting to screen</li> <li>OnSS - lighting.</li> <li>OnSS - fencing and signage.</li> </ul>	These elements represent all the above ground elements which would permanently alter the character of the area and have the potential to effect important elements of an asset's setting.
Decommissioning		
Impact 1: Temporary indirect impacts to designated and non- designated heritage assets through setting change caused by the demolition of the OnSS	The visible removal of structures would be restricted to: OnSS – removal of the OnSS.	The decommissioning phase of the Project would cause a visual change at the OnSS only.



Potential effect	otential effect Maximum adverse scenario assessed	
	As referenced by Table 20.4, ground disturbance associated with the decommissioning would	0
	be anticipated to be entirely within the footprint of disturbance caused by the construction of	works would be anticipated to
archaeological remains	the Project.	cause ground disturbance in
through the removal of		the same areas affected by
infrastructure		construction.



# 20.5.3 Embedded Mitigation

55. Mitigation measures that were identified and adopted as part of the evolution of the Project design (embedded into the Project design) and that are relevant to Onshore Archaeology and Cultural Heritage are listed in Table 20.5. General mitigation measures, which would apply to all parts of the Project, are set out first. Thereafter mitigation measures that would apply specifically to Onshore Archaeology and Cultural Heritage issues associated with the ECC and OnSS are described separately.

Table 20.5: Embedded mitigation relating to Onshore Archaeology and Cultural Heritage

Project phase	Mitigation measures embedded into the project design
General	
Project design	<ul> <li>Careful routing of the onshore ECC route, 400 kV cable corridor and siting of the OnSS to avoid key areas of heritage and archaeological sensitivity. This includes the avoidance of Slackholme DMV – see commitment COM-150.</li> <li>Potential for preservation in situ of remains of national importance secured by the Schedule of Mitigation (document reference 8.13) and Figure 3.4.7</li> </ul>
Construction	
ECC	<ul> <li>The footprint of all designated heritage assets had been avoided. Total avoidance of remains of national importance where possible.</li> <li>The use of trenchless techniques to avoid open cut trenching and minimise disturbance footprint to other remains of high importance.</li> <li>The restriction of a typically 60m working width within the typically 80m wide cable corridor to minimise ground disturbance to other remains of high importance.</li> <li>The ground restoration would be flush. Above ground markers for link boxes may include fencing or marker posts.</li> </ul>
OnSS	The footprint of all designated heritage assets has been avoided.
Operation and Maintena	ance
OnSS	<ul> <li>Landscaping shown on landscape mitigation plans including woodland shelter belts, Chapter 28 (document reference 6.2.28.15)</li> </ul>
Decommissioning	
OnSS	No disturbance to 'new ground' that hasn't already been impacted.



# 20.6 Assessment Methodology

56. The applicable guidance is summarised as follows:

- National Planning Practice Guidance (DCLG 2014, as updated).
- Principles of Cultural Heritage Impact Assessment in the UK (IEMA, IHBC & CIFA 2021).
- Statements of Heritage Significance: Analysing Significance in Heritage Assets Historic England Advice Note 12 (Historic England 2019).
- The Setting of Heritage Assets: Historic Environment Good Practice Advice in Planning Note 3 (2<sup>nd</sup> edition, Historic England 2017).
- Design Manual for Roads and Bridges -
  - LA 104 Environmental Assessment and Monitoring (Highways England 2019)
  - LA 106 Cultural Heritage Assessment (Highways England 2019).
- The Lincolnshire Archaeology Handbook.<sup>3</sup>
- 57. The magnitude of the impact is defined in Table 20.6. This is in accordance with guidance presented in the Design Manual for Roads and Bridges and is considered relevant to a linear Project of this nature.<sup>4</sup>
- 58. This may be in reference to a direct impact i.e., through physical disturbance or it may be in reference to an indirect effect i.e., through changes to setting that affect significance.

Magnitude	Description/reason
Major	Loss of resource and/or quality and integrity of resource; severe damage to key
	characteristics, features or elements.
Moderate	Loss of resource, but not adversely affecting the integrity; partial loss of/damage
	to key characteristics, features or elements.
Minor	Some measurable change in attributes, quality, or vulnerability; minor loss of, or
	alteration to, one (maybe more) key characteristics, features or elements.
Negligible	Very minor loss or detrimental alteration to one or more characteristics, features
	or elements.

Table 20.6: Impact magnitude definitions

59. In general EIA terminology, the sensitivity of a receptor is a function of its capacity to accommodate change and reflects its ability to recover if it is affected. In heritage terms, sensitivity relates to the nature of heritage assets as a non-renewable resource. Sensitivity is representative of an asset's designated status which references rarity on a national scale. Designated status infers the prevalence of a given asset and, therefore, the potential for that particular type of asset when viewed as a group to accommodate removal.

<sup>&</sup>lt;sup>3</sup> https://www.lincolnshire.gov.uk/historic-environment/archaeological-handbook

<sup>&</sup>lt;sup>4</sup> Design Manual for Roads and Bridges (2019)



60. The NPPF, in paragraph 206 part (b), infers a grading of significance in referring to 'assets of the highest significance' in reference to Scheduled Monuments, registered battlefields, Grade I and Grade II\* Listed Buildings, Grade I and Grade II\* Registered Parks and Gardens and World Heritage Sites. These categories of heritage assets have been incorporated into Table 20.7.

Table 20.7: Sensitivity/importance of the environment

Receptor sensitivity / importance	Definition		
Very High	Very high importance and rarity, international scale and very limited potential for substitution.		
	<ul> <li>World Heritage Sites</li> </ul>		
High	High importance and rarity, national scale, and limited potential for substitution.		
	<ul> <li>Assets described as being of the 'highest significance' within the NPPF (paragraph 206</li> </ul>		
	Scheduled Monuments		
	Registered Battlefields		
	<ul> <li>Grade I and II* Listed Buildings</li> </ul>		
	<ul> <li>Grade I and II* Registered Parks and Gardens</li> </ul>		
	<ul> <li>Conservation Areas including a high number of Grade I and II* Listed Buildings</li> </ul>		
	<ul> <li>Non-designated archaeological remains of demonstrable equivalence to a Scheduled Monument</li> </ul>		
Medium	Medium or high importance and rarity, regional scale, limited potential for substitution. Assets inferred as not being of the highest importance due to their omission from NPPF paragraph 200.		
	<ul> <li>Grade II Listed Buildings</li> </ul>		
	<ul> <li>Other Conservation Areas</li> </ul>		
	<ul> <li>Grade II Registered Parks and Gardens</li> </ul>		
	<ul> <li>Archaeological remains contributing to regional research frameworks</li> </ul>		
Low	Low or medium importance and rarity, local scale		
	Locally listed buildings		
	<ul> <li>Other archaeological remains</li> </ul>		
Negligible	Very low importance and rarity, local scale		

61. Table 20.8 cross references the importance of the receptor with the magnitude of effect and refers to a DMRB matrix with 'slight' replaced by 'minor' and 'large' replaced with 'major' to achieve conformity across all chapters of this ES.



#### Table 20.8: Matrix to determine effect significance

		Magnitude of impact			
		Negligible	Minor	Moderate	Major
Sensitivity/Importance of receptor	Negligible	Negligible	Negligible or Minor	Negligible or Minor	Minor
	Pow	Minor	Minor	Minor	Minor or Moderate
	Medium	Minor	Minor	Moderate	Moderate or Major
	High	Minor	Minor or Moderate	Moderate or Major	Major
	Very High	Minor	Moderate or Major	Major	Major

62. It should be noted that a 'significant' impact in EIA terms does not necessarily equate to 'substantial harm' in reference to NPPF terminology. Also, as referenced within the DMRB guidance and considered applicable:

'the effect on the cultural heritage resource is not significant when the impact does not substantially diminish the heritage interest of the cultural heritage resource'.<sup>5</sup>

63. A conclusion on whether or not an impact is considered significant will be made by the author of the EIA with regards to a narrative prepared outside of the tabulated summary.

# 20.6.1 Assumptions and Limitations

64. The prediction of direct impacts to potential archaeological remains has been prepared with regard to a baseline as set out within Appendix 20.1 Onshore Archaeology and Cultural Heritage Desk-Based Assessment (document reference 6.3.20.1).



- 65. With regard to archaeological fieldwork, NPPF (paragraph 200) and EN-1 (paragraph 5.9.11) reference a potential necessity for evaluation fieldwork. Fieldwork undertaken to inform the EIA has included targeted geophysical which has evaluated the footprint of the Transition Joint Bays (TJBs), the only part of the Order Limits outside of the onshore ECC and 400kV cable corridor where significant impacts may have been predicted and where preservation in situ is not possible. At the TJBs the geophysical survey has been undertaken and has not highlighted a potential for significant impacts.
- 66. Therefore, in light of the indicative onshore infrastructure as set out in Figure 3.4.7, a commitment that preservation in situ could be accommodated for works along the onshore ECC between the TJB and the OnSS and for the 400kV cable corridor (Schedule of Mitigation document reference 8.13) and the findings of the DBA (document reference 6.3.20.1) and this Chapter, the baseline presented is considered sufficient for the determination of the DCO.
- 67. The assessment of indirect (setting) effects was undertaken using all standard desk-based resources. These are set out within Appendix 20.2 (document reference 6.3.20.2). Field observations were made from publicly accessible areas. No privately owned assets were inspected or visited. Assumptions on the private experience of assets have been made.

# 20.7 Impact Assessment

# 20.7.1 Construction

- 68. This section presents the assessment of impacts arising from the construction phase of the Project. The following tabulated matrices are provided as a worst-case scenario. The importance of an asset is provided in accordance with Table 20.7.
- 69. Remains as set out in the baseline section would be of varying archaeological interest contributing towards an understanding of activity from the prehistoric period onwards.

# 20.7.1.1 Archaeological Remains *Transient Prehistoric*

70. These include potential archaeological remains on the surface of the Pleistocene land surface which is below the earlier tidal mudflat (AOP A1). These would only be reached in discrete areas of the Project as set out in Section 20.4.3. Potential remains would comprise Palaeolithic/Mesolithic worked flints or short lived early prehistoric features such as pits and hearths on the late Pleistocene land surface. Such remains would be of archaeological interest in their contribution towards an understanding of seasonal early hunter gatherer communities living on the edge of Doggerland when it was dry. However, their eroded or ex-situ nature would reduce their level of importance. On this basis a low level of importance is predicted.



- 71. This category also includes potential archaeological remains on the surface of or within the earlier mudflat. The Project parameters that may affect layers with the potential for these remains are set out in Section 20.4.3. These remains could comprise later (Neolithic onwards) worked flint and remains of fish traps, jetties and trackways. These would be of archaeological interest in their contribution towards an understanding of hunting activity or movement across marshy landscapes. These activities may have been undertaken on the edge of or within wetland habitats which emerged and re-emerged during various periods of inundation and regression. Due to the nature of the depositional environment involving estuarine tidal processes, it is anticipated that any remains would be eroded and ex-situ apart from in areas where peat may have preserved remains within areas of slower depositional processes.
- 72. Remains would be of archaeological interest. In general, they would not be regarded as being of the highest archaeological importance. Exceptions to this in the category in general may be significant structures such as trackways and jetties which could have been constructed within marshland habitats to facilitate hunting. However, in the footprint of the proposals the repeated estuarine tidal processes which have driven periods of inundation are anticipated to have caused disturbance such that features within and beneath the mudflats would be anticipated to be eroded and ex-situ in most instances. An importance of medium is predicted for areas of stability referenced by the thicker deposits of peat. A lower level of importance is predicted in areas of no peat or thin peat.

## Palaeoenvironmental/geoenvironmental

- 73. These include deposits with organic potential which comprise peat but also waterlogged clays. These would be within and between the later and earlier tidal mudflats. Due to their antiquity, the deposits within the earlier mudflat would probably be of greater interest.
- 74. Plant remains, molluscs and pollen could inform on previous climate, hydrology and ecology and assist in reconstructing past landscapes. The dating of palaeochannels and the recording of sequences of deposition with in them could assist in the understanding of periods of marine ingression and regression.
- 75. Deposits of palaeoenvironmental potential and geoarchaeological potential would therefore be of archaeological interest. The greater interest may lay within deposits held within the earlier mudflat deposit. They would not, however be regarded as being of the highest archaeological importance. An importance of low to medium is predicted.

#### Permanent Occupation and Agriculture

- 76. Permanent remains associated with occupation or agriculture would most likely be present on the surface of, within or beneath the later mudflat (AOP 02). The Project parameters where potential remains of this nature may be anticipated are set out within Section 20.4.3.
- 77. If remains are present it is anticipated that they would most likely be of Iron Age/Romano-British, medieval or post medieval in date.



- 78. Remains associated with Iron Age/Roman settlements would illustrate occupation and agricultural expansion into a late/post prehistoric landscape emerged from the marginal conditions of earlier periods through dropping sea levels. Any remains could inform on the construction of roundhouses and farmsteads and illustrate methods of enclosure, farming and small-scale industrial activity such as the making of pottery. Occupation remains would be anticipated to contribute to an understanding of regional patterns and would be of medium archaeological importance. Associated field systems would be of relatively less importance.
- 79. Much is left to be understood about medieval settlements, including defining settlement types and their relationships, such as towns and other large settlements, particularly in Lincolnshire and the Fenland ridge. Settlement remains dating to the medieval period would have the potential for archaeological remains which would contribute to our understanding of medieval settlement development, growth, level of planning, building types and construction materials, and domestic, agricultural and industrial remains. In general, they would be anticipated to contribute towards a regional understanding of medieval archaeology and be of medium importance but at isolated examples, where relatively large areas of activity are expected and where truncation has been minimal remains could be of higher importance. For example, the remains in ECC2 at Slackholme deserted medieval village may be of high importance due to the level of preservation inferred by earthworks (HER MLI99418). Remains of associated field systems of Anglo Saxon or medieval date would be regarded as being of relatively lesser importance apart from field systems with good surviving earthworks. Medieval roads could inform on communication routes between settlements and areas of other activity and would be anticipated to be of low to medium importance.
- 80. Post medieval farmsteads and other post medieval buildings, which could inform on the continuation of activity from the preceding medieval period and post medieval expansion of farming and occupation across reclaimed land, would be of low to medium archaeological importance. Other identified remains of post medieval date which could relate to post medieval agriculture are tramways at the southern end of the Order Limits. Any remains would be of negligible to low importance.
- 81. Post medieval field systems would inform on the post medieval agglomeration of earlier field systems and the enclosure of new areas of land. These would be anticipated to be of negligible to low archaeological interest.
- 82. Medieval/post medieval drainage ditches which would inform on the management of water for the purposes of drainage/land reclamation in making land suitable for occupation and agriculture. These would be anticipated to range in the region of negligible to medium importance, the larger ditches such as the Hob Hole Drain being of relatively higher interest due to the level of engineering and the impact that its construction had on regional land improvements.

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#### Salterns

- 83. The remains of salterns may be present as low mounds made up of pottery waste and fragments of burnt clay which could have accumulated over many episodes of the heating of brine water and the collection of salt crystals. Saltern remains would be present between the earlier and the later mudflat deposit within the Project parameters as set out in Section 20.4.3. These are most likely to date to the Iron Age/Roman to medieval periods.
- 84. These assets would be considered of low importance in the circumstances of the Project footprint where repeated estuarine tidal processes which have driven periods of inundation are anticipated to have caused disturbance such that features within and beneath the mudflats would be anticipated to be eroded. Later arable intensification in the area would also have affected later examples such that all earthworks in general are eroded.

#### Seawalls

- 85. The waste products from salt making were responsible for the accumulation of debris which in places accumulated to such a height it acted as a sea wall. These accumulations are not anticipated within the Order Limits, with seawall remains of this type being specifically recorded outside of the Project footprint.
- 86. Purpose-built defences of likely medieval date are recorded within close vicinity to or extending into the Order Limits as referenced in Section 20.4.3. Depending on their level of preservation these assets would be considered of low to medium importance, illustrating a concerted effort in the medieval period to defend areas of land from inundation most likely for the purposes of grazing and agricultural expansion, albeit an association with defended settlement cannot be ruled out. Seawalls with extant earthworks would be considered to be of medium importance due to the visual appreciation of their function and the preservation of their structures informing on medieval methods of sea defence construction.

#### Summary

- 87. It is anticipated that archaeological remains would be predominantly gauged at no greater than low or medium importance. Exceptions to this are the medieval remains associated with Slackholme deserted medieval village. These could be well preserved and be of high importance. These would be avoided through trenchless methods.
- 88. The significance of effect is provided in accordance with.

# 20.7.1.2 Impact 1: Permanent direct impacts to buried archaeological remains through the construction of the Landfall, Onshore ECC, 400 kV cable route and OnSS.

89. A summary of the permanent direct impacts to buried archaeological remains through the construction of the landfall, onshore ECC, 400Kv cable corridor and the OnSS, are summarised within Table 20.9.



- 90. Impacts 1-20 relate to direct construction disturbance. The magnitude of impact is generally assessed as being 'moderate to major'. This reflects the likely footprint of an asset and the likely footprint of disturbance both horizontally and vertically. A lower level of magnitude is referenced where assets may be particularly large. A lower level of magnitude is also referenced where potential construction parameters are particularly shallow, such as compounds and haul roads where the ground disturbance may not penetrate beyond plough soils or 'overburden' such that deposits with archaeological potential would be minimally affected.
- 91. Impact 21 references potential effects through dewatering. The magnitude of impact is referenced with due regard to the conclusions of Chapter 24 Onshore Hydrology, Hydrogeology and Flood Risk,
- 92. Potentially significant impacts are those referenced with a significance of effect of moderate or greater.
- 93. However, the impacts referenced in Table 20.9 present the worst-case scenario impacts i.e. they reference the installation of the cable via open cut methods where 'open cut or trenchless' works are referenced within Figure 3.4.7.
- 94. It is emphasised that preservation in situ of remains of national importance could be achieved through the implementation of construction techniques which could be applied across the entire onshore Order Limits between the TJB sites and the OnSS and the OnSS and the Project's connection point into the NGSS. These comprise the micro-siting of launch and receive pits, trenchless construction techniques for cable installation and no-dig methods at compounds and haul roads. These options are secured by the submission documents which reference flexible construction methods (Figure 3.4.7) and the Schedule of Mitigation (document reference 8.13). Final construction parameters referencing the above trenchless and no-dig methods would be informed by the works set out within the OWSI for Archaeological Works (document reference 8.9).
  - 95. The potential best-case impact scenario which references a potential for preservation in situ, are set out in at the end of this chapter. In this scenario Table 20.18 does not reference any significant impacts, it being noted that the higher range of worst-case impacts identified in relation to impacts 4 and 6 do not apply to the TJB and the OnSS where deposits of peat are modelled at 0-0.5m in thickness only. This would infer a relative lack of importance in relation to thicker deposits located elsewhere.
  - 96. All impacts should be balanced by the public benefits of providing a renewable electricity supply. Public benefits could also be achieved through the release of heritage capital that any archaeological fieldwork would trigger.



Asset	Segment	Importance	Magnitude of Effect	Significance of Effect (Adverse)	Duration
<ol> <li>Prehistoric         <ul> <li>(permanent) - Iron Age occupation features covered by later tidal mudflats.</li> <li>Potentially including -</li></ul></li></ol>	<ul> <li>Open cut trenching in parts of ECC1 and all of ECC 2-6.</li> <li>Joint bays in all of ECC3-6.</li> <li>Joint bays in parts of ECC1-2 and all of ECC3-6.</li> <li>Trenchless entry and exit pits in all of EEC1 through to ECC6.</li> </ul>	Medium	Moderate to Major	Moderate	Permanent
<ul> <li>2. Prehistoric</li> <li>(permanent) - Iron Age agricultural features covered by later tidal mudflats.</li> <li>Potentially including - <ul> <li>area of archaeological interest 2 in ECC2.</li> </ul> </li> </ul>	<ul> <li>Open cut trench in parts of ECC1 and all of ECC 2-6.</li> <li>Joint bays in all of ECC3-6.</li> <li>Joint bays in parts of ECC1-2 and all of ECC3-6.</li> <li>Trenchless entry and exit pits in all of EEC1-ECC6.</li> </ul>	Low	Moderate - Major	Minor	Permanent
3. Prehistoric (transient/ short lived). Worked flint and short-lived features beneath the earlier mudflat deposit – potential Palaeolithic/Mesolithic date (importance affected by likely eroded and ex situ survival).	<ul> <li>Trenchless entry/exit in all of ECC2 and ECC7-8 and parts of ECC1, ECC3-6, ECC9-14.</li> <li>Joint bays in parts of ECC7-8.</li> <li>Open cut trench in parts of ECC7-8 and ECC10.</li> <li>OnSS – piled foundations.</li> </ul>	Low	Moderate- Major	Minor	Permanent

Table 20.9: Permanent direct impacts to buried archaeological remains.



Asset	Segment	Importance	Magnitude of Effect	Significance of Effect (Adverse)	Duration
4. Prehistoric (transient/ short lived). Later prehistoric worked flint and wooden artefacts such as fishtraps, jetties, trackways (importance affected by likely eroded and ex situ survival, greater levels of importance predicted for thicker deposits of peat).	<ul> <li>TJB in ECC1.</li> <li>OnSS in ECC13.</li> <li>Open cut trench in all of ECC1,9,12-13 and parts of ECC2-8 &amp; 10-11.</li> <li>Joint bays in all of ECC3-8 &amp; 10-12.</li> <li>Joint bays in parts of ECC1, 2, 9 &amp; 13-14.</li> <li>Trenchless entry/exit pits in all of ECC1-8 &amp; 10-12 and parts of ECC9 &amp; ECC13-14.</li> </ul>	Low to medium	Moderate- Major	Minor to moderate	Permanent
5. Palaeochannels with potential for deposits of geoarchaeological interest	All segments (all works but likely not haul roads or compounds due to relative depths)	Medium	Minor	Minor	Permanent
6. Peat may contain deposits of palaeoenvironmental and geoarchaeological potential	All segments (all works but likely not haul roads or compounds due to relative depths)	Low to Medium	Minor to moderate	Minor to Moderate	Permanent
<ul> <li>7. Roman occupation.</li> <li>Potentially including -</li> <li>Area of archaeological interest 2 in ECC2.</li> <li>Area of archaeological interest 12 in ECC8</li> </ul>	<ul> <li>Open cut trench in all of ECC2-8 &amp; 10 and parts of ECC1 &amp; 9.</li> <li>Joint bays in all of ECC3-8 and ECC10.</li> <li>Joint bays in parts of ECC1-2 and ECC9.</li> <li>Trenchless entry and exit pits in all of EEC1-ECC10.</li> </ul>	Medium	Moderate to Major	Moderate	Permanent
<ul> <li>8. Roman agricultural.</li> <li>Potentially including -</li> <li>Area of archaeological interest 2 in ECC2.</li> <li>Area of archaeological interest 8 in ECC6.</li> </ul>	<ul> <li>Open cut trench in all of ECC2-8 &amp; 10 and parts of ECC1 &amp; 9. Joint bays in all of ECC3-8 and ECC10. Joint bays in parts of ECC1-2 and ECC9.</li> <li>Trenchless entry and exit pits in all of ECC1-ECC10.</li> </ul>	Low	Moderate to Major	Minor	Permanent



Asset	Segment	Importance	Magnitude of Effect	Significance of Effect (Adverse)	Duration
<ul> <li>Area of archaeological interest 12 in ECC8</li> </ul>					
<ul> <li>9. Iron Age/Roman salterns. Potentially including –</li> <li>Area of archaeological interest 2 in ECC2.</li> <li>Geophysical anomalies in ECC3.</li> <li>Area of archaeological interest 6 in ECC5</li> <li>Area of archaeological interest 7 in ECC5</li> </ul>	<ul> <li>TJB in ECC1.</li> <li>OnSS in ECC13.</li> <li>Open cut trench in all of ECC2-8 &amp;10-12.</li> <li>Open cut trench in parts of ECC1, 9 &amp;12-14.</li> <li>Joint bays in all of ECC2-8 &amp; ECC10-12.</li> <li>Joint bays in parts of ECC1, ECC9 &amp; ECC13-14.</li> <li>Trenchless entry/exit pits in all of ECC1-8 and ECC10-12.</li> <li>HDD entry/exit pits in parts of ECC9 &amp; ECC13-14.</li> </ul>	Low	Moderate to Major	Minor	Permanent
10. Anglo Saxon Agricultural	<ul><li>ECC2 (all works)</li><li>ECC7-9 &amp; A16 compound (all works)</li></ul>	Low	Moderate to Major	Minor	Permanent
11. Anglo Saxon salterns	ECC1-ECC14 (all works)	Low	Moderate to Major	Minor	Permanent
12. Medieval sea walls	ECC1, ECC11-ECC13 (all works)	Medium	Neutral	None	-
<ul> <li>13. Medieval salterns.</li> <li>Potentially including –</li> <li>Area of archaeological interest 1 in ECC1 including PCC-1)</li> <li>Area of archaeological interest 6 in ECC5</li> </ul>	<ul> <li>ECC1, ECC5-ECC14 (all works)</li> </ul>	Low	Moderate to Major	Minor	Permanent



Asset	Segment	Importance	Magnitude of Effect	Significance of Effect (Adverse)	Duration
<ul> <li>Area of archaeological interest 7 in ECC5</li> <li>Area of archaeological interest 11 in ECC10</li> </ul>					
14. Medieval occupation Slackholme	ECC2	Medium/High	Neutral	None	
15. Medieval occupation at area of archaeological interest 9 in ECC7	<ul> <li>ECC7 including SCC-13 (all works)</li> </ul>	Medium/High	Minor to moderate	Moderate	Permanent
<ul> <li>16. Medieval occupation other locations. Potentially including <ul> <li>Area of archaeological interest 4 in ECC 2</li> <li>Area of archaeological 10 in ECC6</li> </ul> </li> </ul>	<ul> <li>ECC2, ECC3, ECC6, ECC7 (all works)</li> </ul>	Medium	Moderate to Major	Moderate	Permanent
<ul> <li>17. Potential Medieval agricultural remains.</li> <li>Area of archaeological interest 1 in ECC1 including PCC-1)</li> <li>Area of archaeological interest 8 in ECC6</li> <li>Area of archaeological interest 12 in ECC8</li> <li>Area of archaeological interest 11 in ECC9 and ECC10</li> </ul>	<ul> <li>ECC1-ECC12 &amp; A16 compound [PCC-23] (all works)</li> </ul>	Low	Moderate to Major	Minor	Permanent



Asset	Segment	Importance	Magnitude of Effect	Significance of Effect (Adverse)	Duration
<ul> <li>18. Post medieval farmsteads/agricultural buildings.</li> <li>MLI118799 in ECC1</li> <li>MLI120254 in ECC5</li> <li>MLI124352 in ECC6</li> <li>MLI124527 in ECC8</li> <li>MLI124196 in ECC9</li> <li>MLI124228 in ECC10</li> <li>MLI123126 in ECC12</li> <li>Potentially Area of archaeological interest 12 in ECC8</li> </ul>	<ul> <li>ECC1, ECC5, ECC6, ECC8, ECC9, ECC10, ECC12 (all works)</li> </ul>	Low	Moderate- Major	Minor	Permanent
19. Post medieval field systems	<ul> <li>All (all works)</li> </ul>	Negligible to Low	Minor	Minor	Permanent
20. Post medieval tramline	ECC14 (all works)	Negligible to Low	Minor	Minor	Permanent
21. Peat deposits including peat deposits with potential for organic remains	All segments (all works but likely not haul	Low to Medium	Negligible	Minor	Temporary



20.7.1.3 Impact 2: Temporary indirect impacts to designated and non-designated heritage assets through setting change caused by the construction of the ECC, OnSS and National Grid connection.

- 97. This section presents the assessment of impacts arising from the construction phase of the Project. The following tabulated matrices in Table 20.10 are provided as a worst-case scenario. The importance of an asset is provided in accordance with Table 20.6. The magnitude of impact is provided in accordance with Table 20.7. The significance of effect is provided in accordance with Table 20.8.
- 98. A more detailed narrative is presented for selected assets within the Heritage Statement (document reference 6.3.20.2). Sections 5 and 6 of Appendix 20.2 include statements of significance and a detailed impact assessment for assets which were assessed to be at a potential risk of significant impact due to either their level of importance and/or the anticipated nature of impact. All assets referenced in more detail in Appendix 20.2 (document reference 6.3.20.2) are presented in italics in the tables below.
- 99. Cross references will be made to other chapters (presented in Volume 1 of the ES) providing for information on setting change. These will be:
  - Chapter 26 Noise and Vibration (document reference 6.1.26);
  - Chapter 27 Traffic and Transport (document reference 6.1.27); and
  - Chapter 28 Landscape and Visual Assessment (document reference 6.1.28).
- 100. It is noted here that it is anticipated that should any 'significant' impacts be identified here under EIA terminology, they are not indicative of 'substantial harm' as referenced by the NPPF.
- 101. All impacts should be balanced by the public benefits around an electricity supply that the proposals would offer.

Segment	Asset	Importance	Magnitude	Effect	Duration		
Scheduled M	onuments						
ECC7	Abbey Hills Moated Site (1016044)	High	Negligible/Minor	Minor adverse	Temporary		
ECC8	King's Hill Motte (1018398)	High	Negligible	Minor adverse	Temporary		
ECC11	Moulton Hall (1018584)	High	Negligible/Minor	Minor adverse	Temporary		
ECC13	Wykeham Chapel (1019096)	High	Negligible	Minor adverse	Temporary		
Listed Buildin	Listed Buildings						
ECC9	Church of St James (Grade I 1308415)	High	Negligible	Minor adverse	Temporary		

#### Table 20.10: In-direct Temporary Impacts – Construction Phase



Segment	Asset	Importance	Magnitude	Effect	Duration
ECC10	Coupledyke Hall (Grade II 1308426)	Medium	Negligible	Minor adverse	Temporary
ECC13	The Wykeham Chapel of St Nicholas (Grade I 1064471)	High	Negligible	Minor adverse	Temporary
ECC13	The Gables (Grade II 1146546)	Medium	Negligible/Minor	Minor adverse	Temporary
ECC13	Wraggmarsh Farmhouse (Grade II 1147603)	Medium	Negligible/Minor	Minor adverse	Temporary
Non-Designa	ated Farmhouses				
ECC1	Lowgate Farm (HER reference MLI118859)	Low	Negligible/Minor	Minor adverse	Temporary
ECC1	Chestnut Farm (HER reference MLI118860)	Low	Negligible/Minor	Minor adverse	Temporary
ECC1	Quaker's Hill Farmhouse (MLI118805).	Low	Negligible/Minor	Minor adverse	Temporary
ECC2	Field Farm (MLI118858)	Low	Negligible/Minor	Minor adverse	Temporary
ECC2	un-named farmstead (MLI118865)	Low	Negligible/Minor	Minor adverse	Temporary
ECC2	Malt Farm (MLI118869)	Low	Negligible/Minor	Minor adverse	Temporary
ECC2	Slackholme End House Farm (MLI118880)	Low	Negligible/Minor	Minor adverse	Temporary
ECC2	Jasmine Cottage (MLI118883)	Low	Negligible/Minor	Minor adverse	Temporary
ECC2	Willcox Farm (MLI119832)	Low	Negligible/Minor	Minor adverse	Temporary
ECC2	The Grange (MLI41973)	Low	Negligible/Minor	Minor adverse	Temporary



Segment	Asset	Importance	Magnitude	Effect	Duration
ECC3	Fir Tree Farm (MLI119851)	Low	Negligible/Minor	Minor adverse	Temporary
ECC3	Bristol Farm (MLI119871)	Low	Negligible/Minor	Minor adverse	Temporary
ECC4	Rookery Farm (MLI120243)	Low	Negligible/Minor	Minor adverse	Temporary
ECC4	Rivulet House (MLI120244)	Low	Negligible/Minor	Minor adverse	Temporary
ECC4	Bank House (MLI120267)	Low	Negligible/Minor	Minor adverse	Temporary
ECC5	Sycamore Lodge (MLI120271)	Low	Negligible/Minor	Minor adverse	Temporary
ECC6	Decoy Farm (MLI124366)	Low	Negligible/Minor	Minor adverse	Temporary
ECC7	Willoughby Farm (MLI1124362)	Low	Negligible/Minor	Minor adverse	Temporary
ECC7	Avenue Farm (MLI1124368)	Low	Negligible/Minor	Minor adverse	Temporary
ECC7	Walnut Farm (MLI1124369)	Low	Negligible/Minor	Minor adverse	Temporary
ECC7	Bleak House (MLI124370)	Low	Negligible/Minor	Minor adverse	Temporary
ECC7	Hawthorn Farm (MLI124441)	Low	Negligible/Minor	Minor adverse	Temporary
ECC8	Farmstead (MLI124437)	Low	Negligible/Minor	Minor adverse	Temporary
ECC8	Farmstead (MLI124438)	Low	Negligible/Minor	Minor adverse	Temporary
ECC8	Farmstead (MLI124526)	Low	Negligible/Minor	Minor adverse	Temporary
ECC8	Old Leake Farmstead (MLI124541)	Low	Negligible/Minor	Minor adverse	Temporary
ECC8	Faunt Bridge Cottage (MLI124506)	Low	Negligible/Minor	Minor adverse	Temporary



Segment	Asset	Importance	Magnitude	Effect	Duration
ECC9	Swinedike Farm (MLI124199)	Low	Negligible/Minor	Minor adverse	Temporary
ECC9	Reesons Farmstead (MLI124216)	Low	Negligible/Minor	Minor adverse	Temporary
ECC9	Ings Farm (MLI124255)	Low	Negligible/Minor	Minor adverse	Temporary
ECC9	Little Beeches (MLI124256)	Low	Negligible/Minor	Minor adverse	Temporary
ECC11	Marsh Farm (MLI121210)	Low	Negligible/Minor	Minor adverse	Temporary
ECC11	Sandholme Farm (MLI123089)	Low	Negligible/Minor	Minor adverse	Temporary
ECC11	White House Farm (MLI123119)	Low	Negligible/Minor	Minor adverse	Temporary
ECC12	Lloyds Farm (MLI123128)	Low	Negligible/Minor	Minor adverse	Temporary
ECC12	Lentons Farm (MLI123053)	Low	Negligible/Minor	Minor adverse	Temporary
A16 Compound	Old Farm (MLI121208)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13	Hills Farm (MLI122565)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13	Old Three Tuns Farm (MLI122568)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13	un-named farm (MLI122577)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13	Woad farm (MLI122578)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13	Welland House farm (MLI122570)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13	Vicarage Farm (MLI122878)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13	Surfleet farm (MLI122569)	Low	Negligible/Minor	Minor adverse	Temporary



	1				
Segment	Asset	Importance	Magnitude	Effect	Duration
ECC13	un-named farm (MLI122909)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13	Manor Farmhouse (MLI122876)	Low	Negligible/Minor	Minor adverse	Temporary
ECC14	Crowtree Farm (MLI122916	Low	Negligible/Minor	Minor adverse	Temporary
ECC14	Bottom Yard (MLI122915)	Low	Negligible/Minor	Minor adverse	Temporary
Non-Designa	ted Medieval/Post Medie	eval Earthworks			
ECC2	Medieval enclosures (MLI98638)	Low to medium	Minor to moderate	Minor adverse	Temporary
ECC3	Medieval enclosures and field system (MLI98639)	Low to medium	Minor to moderate	Minor adverse	Temporary
Non-designat	ted Deserted Medieval Vi	illages			
ECC2	Slackholme (MLI99418)	Medium to high	Negligible	Minor adverse	Temporary
Historic Land	scape Character and Hed	lgerows			
ECC1-5	Skegness Holiday Coast - The Grazing Marshes	Low	Negligible to minor	Minor adverse	Temporary
ECC1-2	The Mablethorpe Outmarsh - The Grazing Marshes	Low	Negligible to minor	Minor adverse	Temporary
ECC5-13	Townlands - The Wash	Low	Negligible to minor	Minor adverse	Temporary
ECC6-9	Eastern Fens - The Fens	Low	Negligible to minor	Minor adverse	Temporary
ECC11-12	Reclaimed Coastal Fringe - The Wash	Low	Negligible to minor	Minor adverse	Temporary
ECC14	Reclaimed Wash Farmlands - The Wash	Low	Negligible to minor	Minor adverse	Temporary
ECC13	Bicker Haven - The Wash	Low	Negligible to minor	Minor adverse	Temporary

Environmental Statement



20.7.1.4 Impact 3: Temporary direct impact to non-designated heritage assets through the construction of the landfall, onshore ECC , OnSS and 400Kv cable corridor

- 102. The temporary direct impacts to hedgerows and Historic Landscape Character (HLC) remains through the construction of the landfall, onshore ECC, 400Kv cable corridor and the OnSS are set out within Table 20.11.
- 103. Impacts presented below are temporary in reference to the reinstatement of hedgerows and the underground nature of the proposals within the ECC and 400kV cable corridor.
- 104. For all assets the magnitude of impact is assessed as being 'negligible to minor'. This reflects the relative size of the affected part of each asset, relative to the size of the wider HLC parcel or length of hedgerow.

Segment	Asset	Importance	Magnitude	Effect	Duration					
Historic Land	Historic Landscape Character and Hedgerows									
Hedgerows	Hedgerows set out in Annex 2 of the HS	Medium	Negligible to Minor	Minor adverse	Temporary					
ECC1-5	Skegness Holiday Coast - The Grazing Marshes	Low	Negligible to minor	Minor adverse	Temporary					
ECC1-2	The Mablethorpe Outmarsh - The Grazing Marshes	Low	Negligible to minor	Minor adverse	Temporary					
ECC5-13	Townlands - The Wash	Low	Negligible to minor	Minor adverse	Temporary					
ECC6-9	Eastern Fens - The Fens	Low	Negligible to minor	Minor adverse	Temporary					
ECC11-12	Reclaimed Coastal Fringe - The Wash	Low	Negligible to minor	Minor adverse	Temporary					
ECC14	Reclaimed Wash Farmlands - The Wash	Low	Negligible to minor	Minor adverse	Temporary					
ECC13	Bicker Haven - The Wash	Low	Negligible to minor	Minor adverse	Temporary					

Table 20.11: Direct Temporary Impacts – Construction Phase



## 20.7.2 Operations and Maintenance

- 105. At the operational phase, impacts are anticipated to be restricted to those caused by upstanding buildings and associated features at the OnSS. These would be impacts caused by change within the setting of a heritage receptor which would be anticipated to affect the significance of the heritage receptor. It is noted here that change within the setting of a heritage receptor does not necessarily equate to adverse harm under this specific consideration. Impacts are referenced as short term due to mitigation planting which would provide screening.
- 106. A more detailed narrative is presented for selected assets within Appendix 20.2 (document reference 6.3.20.2).
- 107. It is noted here that it is anticipated that any 'significant' impacts identified here under EIA terminology are not indicative of 'substantial harm' as referenced by the NPPF.

20.7.2.1 Impact 1: Permanent indirect impacts to designated and non-designated heritage assets through setting change caused by the presence of the OnSS.

108. Table 20.12 presents the permanent indirect impacts to designated and non-designated heritage assets through setting change caused by the presence of the OnSS.

Segment	Asset	Importance	Magnitude	Effect	Duration			
Scheduled M	Scheduled Monuments							
ECC13	Wykeham Chapel (1019096)	High	Negligible	Minor adverse	Short term			
Listed Buildir	ngs							
ECC13	The Wykeham Chapel of St Nicholas (Grade I 1064471)	High	Negligible	Minor adverse	Short term			
ECC13	The Gables (Grade II 1146546)	Medium	Negligible/Minor	Minor adverse	Short term			
ECC13	Wraggmarsh Farmhouse (Grade II 1147603)	Medium	Negligible/Minor	Minor adverse	Short term			
Non-Designa	ted Farmhouses							
ECC13	Hills Farm (MLI122565)	Low	Negligible/Minor	Minor adverse	Short term			
ECC13	Old Three Tuns Farm (MLI122568)	Low	Negligible/Minor	Minor adverse	Short term			
ECC13	un-named farm (MLI122577)	Low	Negligible/Minor	Minor adverse	Short term			

Table 20.12: Indirect Permanent Impacts – Operational Phase



Segment	Asset		Importance	Magnitude	Effect	Duration
ECC13	Woad fa (MLI122578)	arm	Low	Negligible/Minor	Minor adverse	Short term
ECC13	Welland House fa (MLI122570)	arm	Low	Negligible/Minor	Minor adverse	Short term
ECC13	Vicarage Fa (MLI122878)	arm	Low	Negligible/Minor	Minor adverse	Short term
ECC13	Surfleet fa (MLI122569)	arm	Low	Negligible/Minor	Minor adverse	Short term
ECC13	Manor fa (MLI122876)	arm	Low	Negligible/Minor	Minor adverse	Short term
Historic Landscape Character						
ECC13	Bicker Haven - <sup>-</sup> Wash	The	Low	Minor	Minor adverse	Permanent

109. It is noted that for all assets bar Historic Landscape Character that these are short-term operational effects. In the long term the screening provided by proposed planting would substantially screen the proposals and remove any operational impact.



# 20.7.3 Decommissioning

20.7.3.1 Impact 1: Temporary indirect impacts to designated and non-designated heritage assets through setting change caused by the demolition of the OnSS.

Table 20.13: I	ndirect Tempo	prary Impacts –	Decommission Phase
10010 20.10.1	nun cet rempe	nuly inipucts	

Segment	Asset	Importance	Magnitude	Effect	Duration
Scheduled M	onuments				
ECC13	Wykeham Chapel (1019096)	High	Negligible	Minor adverse	Temporary
Listed Buildin	igs				
ECC13	The Wykeham Chapel of St Nicholas (Grade I 1064471)	High	Negligible	Minor adverse	Temporary
ECC13	The Gables (Grade II 1146546)	Medium	Negligible/Minor	Minor adverse	Temporary
ECC13	Wraggmarsh Farmhouse (Grade II 1147603)	Medium	Negligible/Minor	Minor adverse	Temporary
Non-Designa	ted Farmhouses				
ECC13	Hills Farm (MLI122565)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13	Old Three Tuns Farm (MLI122568)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13	un-named farm (MLI122577)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13	Woad farm (MLI122578)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13	Welland House farm (MLI122570)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13	Vicarage Farm (MLI122878)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13	Surfleet farm (MLI122569)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13	un-named farm (MLI122909)	Low	Negligible/Minor	Minor adverse	Temporary



# 20.7.3.2 Impact 2: Permanent direct impacts to buried archaeological remains through the removal of infrastructure

110. It is anticipated that the footprint of ground disturbance associated with decommissioning would be within the zone of disturbance associated with the construction phase of the Project. On this assumption, there would be no potential significant impact to archaeological which would have been removed or heavily truncated by construction activity.

## 20.8 Mitigation

111. Mitigation works are set out in the OWSI for Archaeological Work (document reference 8.9). These comprise the standard suite of archaeological mitigation works including set piece excavation, strip, map and sample, watching briefs and preservation in situ. Mitigation options will be deployed in response to the results of archaeological evaluation also set out within the OWSI.

# 20.9 Cumulative Impact Assessment

- 112. This cumulative impact assessment for archaeology and cultural heritage has been undertaken in accordance with the methodology provided in Volume 3, Appendix 32.1 Cumulative Effects Assessment Approach (document reference 6.3.32.1).
- 113. The projects and plans selected as relevant 'other developments' to the assessment of cumulative impacts to Onshore Archaeology and Cultural Heritage are based upon a screening exercise undertaken on an initial long list of reasonably foreseeable other developments located within the Project's zone of influence; be it consented schemes not built out or schemes for which planning consent is actively being sought.
- 114. Each project, plan or activity under these terms has been considered and scoped in or out on the basis of effect-receptor pathway, data confidence and the temporal and spatial scales involved.
- 115. The determination of the short list of other developments is documented in Appendix 32.1 (document reference 6.3.32.1).
- 116. For the purposes of assessing the cumulative impact on Archaeology and Cultural Heritage all other developments, other than the Naylors Farm application and the National Grid Substation (see below), were screened out due to the lack of common receptors.

## 20.9.1 Naylors Farm Application

## 20.9.1.1 Archaeology (Direct Impacts)

117. The Naylors Farm application which comprises a proposed anaerobic digester plant is located to the immediate west of the Order Limits; specifically, west of the OnSS. Apart from the potential direct impact to possible palaeochannels, transient remains, salterns and deposits of peat which in this location would be anticipated to have been affected by erosion, no cumulative impacts would be predicted. The works associated with Naylors Farm and the OnSS would not be anticipated to combine to cause a significant impact due to the anticipated level of importance or remains as set out in Table 20.14.



118. In both cases archaeological mitigation would be implemented to record archaeological and paleoenvironmental remains.

Segment	Asset	Importance	Cumulative Magnitude	Cumulative Effect	Duration
ECC13/OnSS	Disturbance to palaeochannels with potential for deposits of geoarchaeological interest	Medium	Minor	Minor adverse	Permanent
ECC13/OnSS	Peat which may contain deposits of palaeoenvironmental and geoarchaeological potential	Low	Minor to moderate	Minor adverse	Permanent
ECC13/OnSS	Prehistoric (transient/ short lived). Worked flint and short-lived features beneath the earlier mudflat deposit – potential Palaeolithic/Mesolithic date (importance affected by likely eroded and ex situ survival).	Low	Moderate to major	Minor	Permanent
ECC13/OnSS	Salterns (Iron Age to medieval)	Low	Moderate to major	Minor	Permanent

Table 20 14: Potential Common	Archaeology Recentors	with the Naylors Farm Application
Table 20.14. Potential Common	Archaeology Receptors	with the Naylors Farm Application

## 20.9.1.2 Cultural Heritage (Setting Impacts)

- 119. Common receptors would be anticipated to be as set out within Table 20.15. These are assets located in the vicinity of Naylors Farm where effects have been predicted in respect to the construction in the Order Limits, principally the OnSS (see Appendix 20.2). It is noted that all cumulative impacts classified as temporary would only occur if the OnSS and Naylors Farm were to be constructed at the same time.
- 120. As indicated, impacts identified for the Project OnSS are not anticipated to combine cumulatively with the Naylor Farm proposals to increase the level of impact already identified. Therefore, no significant cumulative impacts are predicted in respect to heritage receptors through setting change.



Table 20.15: Potential Common Heritage Receptors with the Naylors Farm application	tion
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Segment	Asset	Importance	Cumulative Magnitude	Cumulative Effect	Duration
Scheduled Mo	onuments				
ECC13/OnSS	Wykeham Chapel (1019096)	High	Negligible	Minor adverse	Temporary & Short term
Listed Buildin	gs				
ECC13/OnSS	The Gables (Grade II (1146546)	Medium	Negligible/Minor	Minor adverse	Temporary & Short term
ECC13/OnSS	The Wykeham Chapel of St Nicholas (Grade I 1064471)	High	Negligible	Minor adverse	Temporary & Short term
Non-Designat	ed Farmhouses				
ECC13/OnSS	un-named farm (MLI122577)	Low	Minor/Moderate	Minor adverse	Temporary & Short term
ECC13/OnSS	Old Three Tuns Farm (MLI122568)	Low	Minor/Moderate	Minor adverse	Temporary & Short term
ECC13/OnSS	Woad farm (MLI122578)	Low	Minor/Moderate	Minor adverse)	Temporary & Short term

#### 20.9.2 National Grid Substation

121. The National Grid substation (NGSS) that the Project's OnSS would connect into is considered here. This would be located within the footprint of ECC14 in the Connection Area which is an indicative search area for this infrastructure.

#### 20.9.2.1 Archaeology (Direct Impacts)

- 122. Apart from the potential direct impact to possible palaeochannels, transient remains, salterns and deposits of peat, which in this location would be anticipated to have been affected by erosion, no cumulative impacts would be predicted. The works associated with the 400kV cable route and the NGSS would not be anticipated to combine to cause a significant impact due to the anticipated level of importance or remains as set out in Table 20.16.
- 123. In both cases archaeological mitigation would be implemented to record archaeological and paleoenvironmental remains.



#### Table 20.16:Potential Common Archaeology Receptors with the NGSS

Segment	Asset	Importance	Cumulative Magnitude	Cumulative Effect	Duration
ECC14	Disturbance to paleochannels with potential for deposits of geoarchaeological interest	Medium	Minor	Minor adverse	Permanent
ECC14	Peat which may contain deposits of paleoenvironmental and geoarchaeological potential	Low	Minor to moderate	Minor adverse	Permanent
ECC14	Prehistoric (transient/ short lived). Worked flint and short-lived features beneath the earlier mudflat deposit – potential Palaeolithic/Mesolithic date (importance affected by likely eroded and ex situ survival).	Low	Moderate to major	Minor	Permanent
ECC14	Salterns (Iron Age to medieval)	Low	Moderate to major	Minor	Permanent

#### 20.9.2.2 Cultural Heritage (Setting Impacts)

- 124. Common receptors would be anticipated to be as set out within Table 20.17. These are assets located in the vicinity of the NGSS where effects have been predicted in respect to the construction of the 400Kv cable and the OnSS (see Appendix 20.2). It is noted that all cumulative impacts classified as temporary would only occur if both substations were to be constructed at the same time.
- 125. As indicated, impacts identified for the Project OnSS are not anticipated to combine cumulatively with the NGSS proposals to increase the level of impact already identified. Therefore, no significant cumulative impacts are predicted in respect to heritage receptors through setting change.



### Table 20.17: Potential Common Heritage Receptors with the NGSS

Segment	Asset	Importance	Cumulative Magnitude	Cumulative Effect	Duration
Scheduled N	Nonuments	• 		•	
ECC13/14	Wykeham Chapel (1019096)	High	Negligible	Minor adverse	Temporary & Short term
Listed Buildi	ings	ſ		ſ	
ECC13/14	The Wykeham Chapel of St Nicholas (Grade I 1064471)	High	Negligible	Minor adverse	Temporary & Short term
ECC13/14	Wraggmarsh Farmhouse (Grade II 1147603)	Medium	Negligible/Minor	Minor adverse	Temporary & Short term
Non-Designa	ated Farmhouses				
ECC13/14	Crowtree Farm (MLI122916)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13/14	ECC13 White House Farm (MLI122917)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13/14	ECC13 Welland Farm (MLI122918)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13/14	ECC13 Top Yard Farm (MLI122919)	Low	Negligible/Minor	Minor adverse	Temporary
ECC13/14	Bottom Yard (MLI122915)	Low	Negligible/Minor	Minor adverse	Temporary



## **20.10** Inter-Relationships

126. Archaeological and Cultural Heritage receptors may also be identified as a receptor within other specialist disciplines such as 'Noise and Vibration', 'Hydrology and Flood Risk' and 'Landscape and Visual Assessment'. Any vibration or water environment effects would be important to understand in respect to potential harm to the fabric or deposits of a heritage asset and this has been referenced as necessary within this chapter, specifically in respect to the potential de-watering of peat. In respect to visual change assessed by the Landscape and Visual Assessment, it is important to understand that the receptor considered within the Archaeology and Cultural Heritage Assessment is the heritage asset itself whilst the receptor considered in the LVIA is the person only. The effects identified by each discipline may well therefore be different. It is recognised that visibility (or not) of proposals does not necessarily equate to adverse effects.

## 20.11 Transboundary Effects

127. No transboundary effects are anticipated.

## 20.12 Conclusions

- 128. The baseline provided by the ES indicates that the Project would be considered to be consistent with the provisions of the NPPF (2023) and EN-1 (2023).
- 129. This assessment has identified known and anticipated archaeological remains (heritage assets) within the Order Limits and has discussed their significance in accordance with the NPPF (2023) paragraph 200 and EN-1 (paragraph 5.9.10).
- 130. Field evaluation comprising a watching brief of site investigations, magnetometer geophysical survey and electromagnetic geophysical survey has been undertaken in accordance with the NPPF (paragraph 200) and EN-1 (2023 paragraph 5.9.11)). Although these surveys have not extended to the entire footprint of the Order Limits it is considered that the baseline presented has allowed a sufficient understanding of the potential significant impact of the proposed development upon archaeological remains. This is in light of the variable historic geography of the Order Limits and the resulting predicted significance of archaeological remains alongside the indicative onshore infrastructure (Figure 3.4.7) and the Schedule of Mitigation (document reference 8.13) which provide for flexibility around preservation in situ of remains of national importance along the entire onshore ECC and 400kV corridor. At the Transition Joint Bay, the only part of the Order Limits outside of the ECC where significant impacts could have been predicted and where preservation in situ is not possible, the geophysical survey has been undertaken and has not highlighted a potential for significant impacts.
- 131. No designated archaeological remains would be physically affected by the Project, this being secured by the Schedule of Mitigation (document reference 8.13) in respect to the Abbey Hills moated site monument (NHLE reference 1016044).
- 132. Other potential remains of national (high) importance which could be present in association with Slackholme deserted medieval village (HER MLI99418) would be avoided



through the use of trenchless techniques, as per the submitted indicative infrastructure plans (Figure 3.4.7.8) and the Schedule of Mitigation (document reference 8.13).

- 133. No significant direct impacts to non-designated archaeological remains are predicted where preservation in situ is not possible, namely the location of the OnSS and the location of the TJB at landfall. In all instances, where significant impacts to non-designated remains are possible along the onshore ECC, the implementation of design measures at the detailed design stage to reference trenchless techniques, micro-siting and no-dig measures would remove significant impacts. On this basis there would be no residual significant impacts to non-designated archaeological remains.
- 134. Overall, any residual insignificant adverse effects should be weighed in the planning balance consistent with paragraph 209 (NPPF) and paragraph 5.9.33 (EN -1 2023). All impacts should be balanced by the public benefits around an electricity supply that the proposals offer. Public benefits could also be achieved through the release of heritage capital that any archaeological fieldwork would trigger.
- 135. No potentially significant indirect impacts have been identified for designated heritage assets or non-designated heritage assets. All indirect impacts are identified as insignificant and predominantly temporary or short term.
- 136. The proposals are considered to be compliant with the legislative and planning policy provisions relevant to heritage.
- 137. All impacts should be balanced by the public benefits around an electricity supply that the Project offers.



Table 20.18: Summary of the Residual Impacts for each Effect

Asset	Significance of Effect (Adverse)	Additional Mitigation Measures	Residual Impact Worst Case	Residual Impact Best Case
Construction – Direct Impacts to Non-Designated Assets				
<ol> <li>Disturbance to prehistoric (permanent) - Iron Age occupation features covered by later tidal mudflats.</li> <li>Potentially including -         <ul> <li>area of archaeological interest 2 in ECC2.</li> </ul> </li> </ol>	Moderate	Archaeological recording as necessary	Moderate	No change
<ul> <li>2. Disturbance to prehistoric (permanent) - Iron Age agricultural features covered by later tidal mudflats.</li> <li>Potentially including -         <ul> <li>area of archaeological interest 2 in ECC2.</li> </ul> </li> </ul>	Minor	Archaeological recording as necessary	Minor	No change
3. Disturbance to prehistoric (transient/short lived) features. Worked flint and short-lived features beneath the earlier mudflat deposit – potential Palaeolithic/Mesolithic date (importance affected by likely eroded and ex situ survival). Medium levels of importance and the higher level of impact predicted for areas of peat.	Minor to Moderate	Archaeological recording as necessary	Minor	Minor
4. Disturbance to prehistoric (transient/ short lived) features. Later worked flint and wooden artefacts such as fishtraps, jetties, trackways (importance affected by likely eroded and ex situ survival).	Minor to Moderate	Archaeological recording as necessary	Minor to Moderate	Minor (assuming impact to thin deposits of peat at OnSS and TJB only)
5. Disturbance to palaeochannels with potential for deposits of geoarchaeological interest	Minor	Archaeological recording as necessary	Minor	Minor



Asset	Significance of Effect (Adverse)	Additional Mitigation Measures	Residual Impact Worst Case	Residual Impact Best Case
6. Disturbance to peat which may contain deposits of palaeoenvironmental and geoarchaeological potential	Minor to Moderate	Archaeological recording as necessary	Minor to Moderate	Minor (assuming impact to thin deposits of peat at OnSS and TJB only)
<ul> <li>7. Disturbance to Roman occupation remains.</li> <li>Potentially including - <ul> <li>area of archaeological interest 2 in ECC2.</li> </ul> </li> </ul>	Moderate	Archaeological recording as necessary	Moderate	No change
<ul> <li>8. Disturbance to Roman agricultural remains.</li> <li>Potentially including - <ul> <li>Area of archaeological interest 2 in ECC2.</li> <li>Area of archaeological interest 8 in ECC6.</li> <li>Other geophysical anomalies at the western end of ECC8.</li> </ul> </li> </ul>	Minor	Archaeological recording as necessary	Minor	No change
<ul> <li>9. Disturbance to Iron Age/Roman salterns.</li> <li>Potentially including –</li> <li>Area of archaeological interest 2 in ECC2.</li> <li>Geophysical anomalies in ECC3.</li> <li>Area of archaeological interest 6 in ECC5</li> <li>Area of archaeological interest 7 in ECC5</li> </ul>	Minor	Archaeological recording as necessary	Minor	Minor
10. Disturbance to Anglo Saxon agricultural remains	Minor	Archaeological recording as necessary	Minor	No change



Asset	Significance of Effect (Adverse)	Additional Mitigation Measures	Residual Impact Worst Case	Residual Impact Best Case
11. Disturbance to Anglo Saxon salterns	Minor	Archaeological recording as necessary	Minor	Minor
13. Disturbance to medieval salterns (possibly within areas of archaeological interest 1)	Minor	Archaeological recording as necessary	Minor	Minor
15. Medieval occupation in area of archaeological interest 9 in ECC7	Moderate	Archaeological recording as necessary	Moderate	No change
<ul> <li>16. Disturbance to medieval occupation other locations outside Slackholme. Potentially including</li> <li>Area of archaeological interest 4 in ECC 2</li> <li>Area of archaeological 10 in ECC6</li> </ul>	Moderate	Archaeological recording as necessary	Moderate	No change
<ul> <li>17. Disturbance to potential medieval agricultural remains.</li> <li>Possible in area of archaeological interest 1</li> <li>Area of archaeological interest 8 in ECC6</li> <li>Area of archaeological interest 12 at ECC8</li> <li>Area of archaeological interest 11 in ECC9 and ECC10</li> </ul>	Minor	Archaeological recording as necessary	Minor	No change
<ul> <li>18. Disturbance to remains of post medieval farmsteads/agricultural buildings.</li> <li>MLI118799 in ECC1</li> <li>MLI120254 in ECC5</li> <li>MLI124352 in ECC6</li> <li>MLI124527 in ECC8</li> <li>MLI124196 in ECC9</li> </ul>	Minor	Archaeological recording as necessary	Minor	No change



Asset	Significance of Effect (Adverse)	Additional Mitigation Measures	Residual Impact Worst Case	Residual Impact Best Case
<ul><li>MLI124228 in ECC10</li><li>MLI123126 in ECC12</li></ul>				
<ul> <li>Potentially area of archaeological interest 12 at ECC8</li> </ul>				
19. Disturbance to post medieval field systems	Minor	Archaeological recording as necessary	Minor	No change
20. Disturbance to post medieval tramline	Minor	Archaeological recording as necessary	Minor	No change
21. Peat deposits including peat deposits with potential for organic remains	Minor	Archaeological recording and sampling as necessary	Minor	No change
Construction – Indirect Effects to Scheduled Monuments				
Abbey Hills Moated Site (1016044)	Minor adverse	None	Minor adverse (temporary)	n/a
King's Hill Motte (1018398)	Minor adverse	None	Minor adverse (temporary)	n/a
Moulton Hall (1018584)	Minor adverse	None	Minor adverse (temporary)	n/a
Wykeham Chapel (1019096)	Minor adverse	None	Minor adverse (temporary)	n/a
Construction – Indirect Effects to Listed Buildings				
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Asset	Significance of Effect (Adverse)	Additional Mitigation Measures	Residual Impact Worst Case	Residual Impact Best Case
Church of St James (Grade I 1308415)	Minor adverse	None	Minor adverse (temporary)	n/a
Coupledyke Hall (Grade II 1308426)	Minor adverse	None	Minor adverse (temporary)	n/a
The Wykeham Chapel of St Nicholas (Grade I 1064471)	Minor adverse	None	Minor adverse (temporary)	n/a
The Gables (Grade II 1146546)	Minor adverse	None	Minor adverse (temporary)	n/a
Wraggmarsh Farmhouse (Grade II 1147603)	Minor adverse	None	Minor adverse (temporary)	n/a
Construction – Indirect Effects to Non-Designated Farmhouses				
Lowgate Farm (HER reference MLI118859)	Minor adverse	None	Minor adverse (temporary)	n/a
				n/a
Chestnut Farm (HER reference MLI118860)	Minor adverse	None	Minor adverse (temporary)	n/a
Quaker's Hill Farmhouse (MLI118805).	Minor adverse	None	Minor adverse (temporary)	n/a



Asset	Significance of Effect (Adverse)	Additional Mitigation Measures	Residual Impact Worst Case	Residual Impact Best Case
Field Farm (MLI118858)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
un-named farmstead (MLI118865)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Malt Farm (MLI118869)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Slackholme End House Farm (MLI118880)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Jasmine Cottage (MLI118883)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Willcox Farm (MLI119832)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
The Grange (MLI41973)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Fir Tree Farm (MLI119851)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Bristol Farm (MLI119871)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	



Asset	Significance of Effect (Adverse)	Additional Mitigation Measures	Residual Impact Worst Case	Residual Impact Best Case
Rookery Farm (MLI120243)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Rivulet House (MLI120244)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Bank House (MLI120267)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Bristol Farm (MLI119871)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Sycamore Lodge (MLI120271)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Decoy Farm (MLI124366)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Willoughby Farm (MLI1124362)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Avenue Farm (MLI1124368)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Walnut Farm (MLI1124369)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	



Asset	Significance of Effect (Adverse)	Additional Mitigation Measures	Residual Impact Worst Case	Residual Impact Best Case
Bleak House (MLI124370)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Hawthorn Farm (MLI124441)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Farmstead (MLI124437)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Farmstead (MLI124438)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Farmstead (MLI124526)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Old Leake Farmstead (MLI124541)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Faunt Bridge Cottage (MLI124506)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Swinedike Farm (MLI124199)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Reesons Farmstead (MLI124216)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	



Asset	Significance of Effect (Adverse)	Additional Mitigation Measures	Residual Impact Worst Case	Residual Impact Best Case
Ings Farm (MLI124255)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Little Beeches (MLI124256)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Marsh Farm (MLI121210)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Sandholme Farm (MLI123089)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
White House Farm (MLI123119)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Lloyds Farm (MLI123128)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Lentons Farm (MLI123053)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Old Farm (MLI121208)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Crowtree Farm (MLI122916	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	



Asset	Significance of Effect (Adverse)	Additional Mitigation Measures	Residual Impact Worst Case	Residual Impact Best Case
Hills Farm (MLI122565)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Old Three Tuns Farm (MLI122568)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
un-named farm (MLI122577)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Woad farm (MLI122578)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Welland House farm (MLI122570)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Vicarage Farm (MLI122878)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Surfleet farm (MLI122569)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
un-named farm (MLI122909)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	
Manor Farm (MLI122876)	Minor adverse	None	Minor	n/a
			adverse	
			(temporary)	



Asset	Significance of Effect (Adverse)	Measures	Residual Impact Worst Case	Case
Bottom Yard (MLI122915)	Minor adverse	None	Minor adverse (temporary)	n/a
Construction – Indirect Effects to Non-Designated Medie	eval Earthworks	1	1	
Medieval enclosures (MLI98638)	Minor adverse	None	Minor adverse (temporary)	n/a
Medieval enclosures and field system (MLI98639)	Minor adverse	None	Minor adverse	n/a
Construction – Indirect Effects to Non-Designated Deser	rted Medieval Villages			
Slackholme (MLI99418)	Minor adverse	None	Minor adverse (temporary)	n/a
Construction – Indirect Effects to Historic Landscape Cha	aracter and Hedgerows			
Skegness Holiday Coast - The Grazing Marshes	Minor adverse	None	Minor adverse (temporary)	n/a
The Mablethorpe Outmarsh - The Grazing Marshes	Minor adverse	None	Minor adverse (temporary)	n/a
Townlands - The Wash	Minor adverse	None	Minor adverse (temporary)	n/a
Eastern Fens - The Fens	Minor adverse	None	Minor adverse (temporary)	n/a



Asset	Significance of Effect (Adverse)	Additional Mitigation Measures	Residual Impact Worst Case	Residual Impact Best Case
Reclaimed Coastal Fringe - The Wash	Minor adverse	None	Minor adverse (temporary)	n/a
Reclaimed Wash Farmlands - The Wash	Minor adverse	None	Minor adverse (temporary)	n/a
Bicker Haven - The Wash	Minor adverse	None	Minor Adverse (permanent)	n/a
Construction – Direct Effects to Historic Landscape Character Hedgerows qualifying as important under historic criteria (Annex 2 Appendix 20.2)	_	None	Minor adverse (temporary)	n/a
Skegness Holiday Coast - The Grazing Marshes	Minor adverse	None	Minor adverse (temporary)	n/a
The Mablethorpe Outmarsh - The Grazing Marshes	Minor adverse	None	Minor adverse (temporary)	n/a
Townlands - The Wash	Minor adverse	None	Minor adverse (temporary)	n/a
Eastern Fens - The Fens	Minor adverse	None	Minor adverse (temporary)	n/a



Asset	Significance of Effect (Adverse)	Additional Mitigation Measures	Residual Impact Worst Case	Case
Reclaimed Coastal Fringe - The Wash	Minor adverse	None	Minor adverse (temporary)	n/a
Reclaimed Wash Farmlands - The Wash	Minor adverse	None	Minor adverse (temporary)	n/a
Operation and Maintenance – Indirect Effects to Schedule	d Monuments			
Wykeham Chapel (1019096)	Minor adverse	Screen planting	Neutral	n/a
Operation and Maintenance – Indirect Effects to Listed Bu	ildings			
The Wykeham Chapel of St Nicholas (Grade I 1064471)	Minor adverse	Screen planting	Neutral	n/a
The Gables (Grade II 1146546)	Minor adverse	Screen planting	Neutral	n/a
Wraggmarsh Farmhouse (Grade II 1147603)	Minor adverse	Screen planting	Neutral	n/a
Operation and Maintenance – Indirect Effects to Non-Des	ignated Farmhouses			
Hills Farm (MLI122565)	Minor adverse	Screen planting	Neutral	n/a
Old Three Tuns Farm (MLI122568)	Minor adverse	Screen planting	Neutral	n/a
un-named farm (MLI122577)	Minor adverse	Screen planting	Neutral	n/a
Woad farm (MLI122578)	Minor adverse	Screen planting	Neutral	n/a
Welland House farm (MLI122570)	Minor adverse	Screen planting	Neutral	n/a
Vicarage Farm (MLI122878)	Minor adverse	Screen planting	Neutral	n/a
Surfleet farm (MLI122569)	Minor adverse	Screen planting	Neutral	n/a
Manor Farm (MLI122876)	Minor adverse	Screen planting	Neutral	n/a
Operation and Maintenance – Effects to Historic Landscap	e Character			
Bicker Haven - The Wash	Minor adverse	None	Minor Adverse (permanent)	n/a



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