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Acronyms & Definitions

Abbreviations / Acronym

Abbreviation / Acronym	Description			
AEol	Adverse Effect on Integrity			
ANS	Artificial Nesting Structure			
BESS	British Energy Security Strategy			
BEIS	Business, Energy and Industrial Strategy (now the Department for Energy			
	Security and Net Zero (DESNZ))			
COWSC	Collaboration on Offshore Wind Strategic Compensation			
DBSE	Dogger Bank South East			
DBSW	Dogger Bank South West			
DCO	Development Consent Order			
DESNZ	Department for Energy Security and Net Zero, formerly Department of Business, Energy and Industrial Strategy (BEIS), which was previously Department of Energy & Climate Change (DECC)			
EPP	Evidence Plan Process			
ETG	Expert Technical Group			
FFC	Flamborough and Filey Coast			
GT R4 Ltd	The Applicant. The special project vehicle created in partnership between Corio Generation (and its affiliates), Gulf Energy Development and TotalEnergies			
GCIMP	Guillemot Compensation Implementation and Monitoring Plan			
HPAI	Highly Pathogenic Avian Influenza			
HRA	Habitats Regulations Assessment			
IFCA	Inshore Fisheries and Conservation Authority			
IROPI	Imperative Reasons of Overriding Public Interest			
JNCC	Joint Nature Conservation Committee			
MMF	Mean Max Foraging			
MMO	Marine Management Organisation			
MPA	Marine Protected Area			
MRF	Marine Recovery Fund			
NSIP	Nationally Significant Infrastructure Projects			
ORCPs	Offshore Reactive Compensation Platforms			
OWF	Offshore Wind Farm			
OWIC	Offshore Wind Industry Council			
PEIR	Preliminary Environmental Information Report			
PINS	Planning Inspectorate			
RIAA	Report to Inform Appropriate Assessment			
RSPB	Royal Society for the Protection of Birds			
SAC	Special Areas of Conservation			
SCI	Sites of Community Importance			
SNCB	Statutory Nature Conservation Body			
SPA	Special Protection Area			



Abbreviation / Acronym	Description
TCE	The Crown Estate

Terminology

The Applicant TotalEnergies and Gulf Energy Development), trading as Outer Dowsing Offshore Wind Array area The area offshore within which the generating station (including wind turbine generators (WTG) and inter array cables), offshore accommodation platforms, offshore transformer substations and associated cabling will be positioned, including the ORBA. Baseline The status of the environment at the time of assessment without the development in place. Compensatory Stage 3 of the Habitats Regulations Assessments (see Derogation) involves the development of compensation measures for any features which the report to inform appropriate assessment was unable to conclude no adverse effect on integrity on. deemed Marine Licence (dML) Derogation Stage 3 of the Habitats Regulations Assessments which is triggered once it is determined that you cannot avoid adversely affecting the integrity of a designated site. Involves assessing if alternative solutions are available to achieve the same goals as the project, if there are imperative reasons of overriding public interest, and if compensatory measures will be required. Development An order made under the Planning Act 2008 granting development consent Order for a Nationally Significant Infrastructure Project (NSIP) from the Secretary of State (SoS) for Department for Energy Security and Net Zero (DESNZ). Effect Term used to express the consequence of an impact. The significance of an effect is determined by correlating the magnitude of an impact with the sensitivity of a receptor, in accordance with defined significance criteria. 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 (HRA) for those relevant topics included in the process, undertaken during the pre-application period. Habitats Regulations Assessment (HRA) for those relevant topics included in the process, undertaken during the pre-application pe	Term	Definition
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conservation sites and Ramsar sites. The process consists of up to four		
stages of assessment: screening, appropriate assessment, assessment of		·
alternative solutions and assessment of imperative reasons of over-riding		
public interest (IROPI) and compensatory measures.		·



	OFFSHORE WIND
Term	Definition
Mitigation	Mitigation measures, or commitments, are commitments made by the Project to reduce and/or eliminate the potential for significant effects to arise as a result of 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.
Offshore Reactive Compensation Station (ORCP)	A structure attached to the seabed by means of a foundation, with one or more decks and a helicopter platform (including bird deterrents) housing electrical reactors and switchgear for the purpose of the efficient transfer of power in the course of HVAC transmission by providing reactive compensation
Offshore Substation (OSS)	A structure attached to the seabed by means of a foundation, with one or more decks and a helicopter platform (including bird deterrents), containing— (a) electrical equipment required to switch, transform, convert electricity generated at the wind turbine generators to a higher voltage and provide reactive power compensation; and (b) housing accommodation, storage, workshop auxiliary equipment, radar and facilities for operating, maintaining and controlling the substation or wind turbine generators
Outer Dowsing Offshore Wind (ODOW)	The Project.
Offshore Restricted Build Area (ORBA)	The area within the array area, where no wind turbine generator, offshore transformer substation or offshore accommodation platform shall be erected.
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.
Preliminary Environmental Information Report (PEIR)	The PEIR was written in the style of a draft Environmental Statement (ES) and provided information to support and inform the statutory consultation process during the pre-application phase.
The Project	Outer Dowsing Offshore Wind including proposed onshore and offshore infrastructure.
The Planning Inspectorate	The agency responsible for operating the planning process for Nationally Significant Infrastructure Projects (NSIPs).
Wind turbine generator (WTG)	A structure comprising a tower, rotor with three blades connected at the hub, nacelle and ancillary electrical and other equipment which may include J-tube(s), transition piece, access and rest platforms, access ladders, boat access systems, corrosion protection systems, fenders and maintenance equipment, helicopter landing facilities and other associated equipment, fixed to a foundation



Reference Documentation

Document Number	Title		
6.1.3	Project Description		
7.1	Report to Inform Appropriate Assessment		
7.1.1	Offshore and Intertidal Ornithology Apportioning		
7.5	Derogation Case		
7.7	Ornithology Compensation Strategy		
7.7.2.1	Guillemot Compensation Implementation and Monitoring Plan		
7.7.4	Artificial Nesting Structures Evidence Base and Roadmap		
7.7.5	Predator Control Evidence Base and Roadmap		
7.7.6	Additional Measures for Guillemot and Razorbill Evidence Base and Roadmap		
REP4a-048	Levels of precaution in the assessment and compensation calculations for offshore ornithology		
REP4a-050	Consideration of bioseasons in the assessments of guillemot		
REP4a-052	Rates of displacement in guillemot and razorbill.		
Document Reference	Guillemot and Razorbill Compensation Quanta		
20.17, V4 updated at D6			



1 Introduction

- 1. GT R4 Limited (trading as Outer Dowsing Offshore Wind) hereafter referred to as the 'Applicant', is proposing to develop Outer Dowsing Offshore Wind (the Project). The Project will include both offshore and onshore infrastructure including an offshore generating station (windfarm) approximately 54km from the Lincolnshire coastline in the southern North Sea, export cables to landfall, Offshore Reactive Compensation Platforms (ORCPs), onshore cables, connection to the electricity transmission network, ancillary and associated development and areas for the delivery of up to two Artificial Nesting Structures (ANS) and the creation and recreation of a biogenic reef (if these compensation measures are deemed to be required by the Secretary of State) (see Volume 1, Chapter 3: Project Description (document reference 6.1.3) for full details).
- 2. As part of the Habitats Regulations Assessment (HRA) process, following the assessment of impacts, where it is concluded that despite mitigation, an adverse effect on the integrity (AEoI) of a designated site (Special Protection Areas (SPAs), Sites of Community Importance (SCIs) and Special Areas of Conservation (SACs) forming part of the 'National Site Network') cannot be excluded (beyond reasonable scientific doubt), projects can undergo a derogation process to gain approval, provided there are 'imperative reasons of overriding public interest' (IROPI), 'no alternatives' and any necessary compensatory measures are secured to ensure that the overall network coherence is protected.
- 3. Defra has produced best practice guidance for developing compensatory measures in relation to Marine Protected Areas (MPAs) (Defra, 2021¹) and is currently consulting on draft policies to update this guidance. The current consultation held as part of Defra's Offshore Wind Environmental Improvement Package (OWEIP) focusses on 'ecological effectiveness' and 'local circumstances' as the primary consideration when identifying compensatory measures, with measures that benefit the specific feature at risk being encouraged over measures that would benefit different qualifying features at risk but which could provide 'functional equivalence'.
- 4. The Flamborough and Filey Coast (FFC) SPA is approximately 93km away from the WTG area, which is within the mean-max foraging range (MMF) of breeding guillemot and therefore there is potential connectivity between the SPA and the Project array during the breeding and non-breeding seasons.
- 5. The Farne Islands SPA is approximately 286km away from the WTG area, connectivity has been screened out for the breeding bio season, however there is non breeding connectivity during the non breeding bio season defined as August to February.

Document Reference: 7.7.2

April 2025

¹ New guidance was published whilst this document was being finalised (<a href="https://consult.defra.gov.uk/offshore-wind-environmental-improvement-package/consultation-on-updated-guidance-for-environmental/supporting_documents/090224%200WEIP%20Consultation%20on%20updated%20policies%20to%20inform%20guidance%20for%20MPA%20assessments_.pdf). Whilst the Applicant is aware of this documentation it is noted that (1) the documentation is still out for consultation and (2) the Project delivery programme did not allow for full inclusion of the recommendations.



- 6. Guillemot are designated features at both the FFC SPA and Farne Islands SPA and are at risk of displacement from OWFs.
- 7. The Applicant also notes advice from Natural England that they cannot rule out the potential for AEoI for the seabird assemblage feature of the FFC SPA, of which guillemot forms part. Whilst the Applicant's assessment in the RIAA concludes that there will be no AEoI on the seabird assemblage feature of the FFC SPA, the Applicant has produced a 'without prejudice' derogation case for the seabird assemblage feature of the FFC SPA. In the event that the Secretary of State (SoS) concludes that an AEoI of the seabird assemblage feature of the FFC SPA cannot be excluded, the compensation measures set out in this document would also compensate for impacts of the Project on the seabird assemblage feature of the FFC SPA.
- 8. With regard to guillemot, the RIAA (document reference 7.1, V5 updated at Deadline 6) has concluded that there is no potential for an AEoI alone or in-combination for both the FFC SPA and Farne Islands SPA.
- 9. However, given the advice received from Natural England that they can not rule out the potential for AEoI for this species at FFC SPA (and for the Flamborough and Filey Coast assemblage which guillemot forms a part) and conclusions within the Habitats Regulations Assessment as part of the Hornsea Four consent decision (specifically for guillemot), there is the possibility that the Secretary of State (SoS) may conclude that the potential for an AEoI on this species (or for the FFC assemblage) cannot be excluded for the Project in-combination. Consequently, the Project has produced a 'without prejudice' derogation case for this species (and for the FFC assemblage).
- 10. The Applicant has received Natural England advice for the Farne Islands SPA that an incombination AEoI on the guillemot feature cannot be ruled out [REP5-172] noting 'the Applicant's proposed without-prejudice measures once fully agreed and if suitable scaled, would also meet the required compensation for guillemot at Farne Islands SPA' consequently there is the possibility that the SoS may conclude that the potential for AEoI on this species at the Farne Islands SPA cannot be excluded for the Project in-combination and therefore a 'without prejudice' derogation case is included for this species, demonstrating how the measures identified can be scaled up to provide compensation for both the Flamborough and Filey Coast SPA and Farne Islands SPA.
- 11. The species considered in this document is:
 - Common guillemot (*Uria aalge*, hereafter guillemot)
- 12. The Derogation Case (document 7.5) provides consideration of the alternatives assessment, need for the Project and has identified Imperative Reasons of Overriding Public Interest for the Project to proceed despite the potential for an AEoI (if the SoS were to conclude such) in accordance with the requirements of the Habitats Regulations.



- 13. The RIAA provides insight into the impacts to the relevant species predicted to occur from the Project. The quantum of potential compensation delivery is identified within this document and the supporting evidence and roadmaps (documents REP4-061 Offshore Artificial Nesting Structure Evidence Base and Roadmap REP4-063 Predator Control Evidence Base and Roadmap, and REP4a-071 Without Prejudice Additional Measures for Compensation of Guillemot and Razorbill) provide the evidence to support the effectiveness of the measures to deliver compensation to the requirements of the Project's findings (i.e. that no compensation is required) and the anticipated Natural England position (a range of precautionary scenarios).
- 14. This document has been updated following a request from Natural England and as agreed by the Applicant with the Examining Authority (ExA) to update the Habitats Regulations Assessment (HRA) related documentation for Deadline 4 to reflect changes made by the Applicant to the Project during the Examination phase. The Applicant has previously provided environmental reports for these updates throughout the Examination (through the submission of the Habitats Regulations Assessment for the Offshore Restricted Build Area and Revision to the Offshore Export Cable Corridor (PD1-091)), confirming that no changes made altered the previously drawn conclusions within the Report to Inform an Appropriate Assessment (RIAA).
- 15. This current version of this report provides update to that submitted within the Application arising from the following project changes:
 - The introduction of an Offshore Restricted Build Area (ORBA) over the northern section of the Project array area; and
 - The removal of the northern section of the offshore Export Cable Corridor (ECC).
- 16. Further updates have been made at Deadline 6 to reflect changes in compensation requirements;
 - including the guillemot feature of the Farne Islands SPA in this compensation plan on a 'without prejudice' basis,
 - including assemblage feature of the FFC SPA; and
 - updated calculation methods based on advice provided by Natural England at Deadline 5 (REP5-172 and REP5-167]).

1.1 Purpose

- 17. This plan sets out how the compensation measures for impacts to guillemot at the FFC SPA and Farne Islands SPA can be secured at the time of the DCO being granted (should the SoS determine that compensation is required). The plan provides a suite of measures, including potential strategic measures and also resilience measures. At this stage is it important to note that the site selection, detailed design and monitoring of the proposed measures will be developed in consultation with relevant stakeholders. This document has been updated to reflect the changes to the RIAA at Deadline 4.
- 18. A compensation implementation and monitoring plan to deliver any required compensation for this species will be prepared based on the strategy set out in the final version of this Plan, as secured in Schedule 22 of the Development Consent Order.



1.2 Without Prejudice Derogation

- 19. The Applicant has concluded that an adverse effect on integrity (AEoI) to the FFC SPA and Farne Islands SPA from the construction, operation and decommissioning of the Project can be ruled out, when considering the detailed project design and associated mitigations which have been committed to.
- 20. However, the Applicant is cognisant of conclusions drawn by the SoS on previous offshore wind farm developments (such as Hornsea Three and Hornsea 4) with regard to the potential for an AEoI not being able to be ruled out to FFC SPA for features such as kittiwake and guillemot incombination with other projects, plans and activities.
- 21. Therefore, whilst the Applicant is confident that a conclusion of no AEoI can be reached for the Project, in acknowledgement of the previous decisions, a 'without prejudice' derogation case has been developed for guillemot at FFC SPA (and the assemblage), and for guillemot at Farne Islands SPA.
- 22. As part of the process of developing the 'without prejudice' derogation case, the Applicant has developed a shortlist of possible compensation options based on the existing Project proposal, recent DCO decisions that have been consented on the basis of an HRA derogation, and stakeholder feedback received to date. These shortlisted options were narrowed down from a longlist following the ranking criteria assessment discussed herein.



2 Quantum of Compensation

2.1 Guillemot

- 23. For Flamborough and Filey Coast SPA the Applicant's position is that no adverse effect on integrity can be concluded. The predicted impact from the Project, for which compensation could be required, should the SoS conclude AEoI, is 18 (18.2) birds, using the Applicant's approach (as detailed within the RIAA (document 7.1)). This number is based on the summed mean peak bio-seasonal occurrence. The proportion of adults within the population is defined as 57% (Furness *et al.*, 2015). The Applicants position is that this is appropriately conservative as presented within the Ornithology Apportioning report (document reference 7.1.1) with 50% of these birds apportioned to the FFC SPA, resulting in the predicted impact of 18 birds.
- 24. For Farne Islands SPA, the Applicants position is that no adverse effect on Integrity can be concluded. The predicted impact from the Project, for which compensation could be required, should the SoS conclude AEoI is 1.7 birds using the Applicant's approach (as detailed within the RIAA (document 7.1). This number is based on the summed mean peak bio-seasonal occurrence. The proportion of adults within the population is defined as 3.7%. The Applicant's position is that this is appropriately conservative as presented within the Ornithology Apportioning report (document reference 7.1.1) with xx% of these birds apportioned to the Farne Islands SPA, resulting in the predicted impact of 1.7 birds.
- 25. The Applicant has provided a guidance document on the rationale for the specific quantum of deliverable compensation for guillemot and razorbill in Guillemot and Razorbill Compensation Quanta (document reference 20.17, V4 updated at Deadline 6), this document firstly sets out the preferred method for calculating the potential impact of the Project and the subsequent required compensation for those impacts, including a non-technical discussion of how precaution is continually built into the calculations (and ultimately results in layers of precaution applied to address the same uncertainties). The document then goes on to present the calculated compensation requirements using both the Applicant's preferred approach and the approach understood to be preferred by Natural England. The Applicant considers that their approach to impact assessment is suitably precautionary, with evidence presented in REP4a-048 Levels of precaution in the assessment and compensation calculations for offshore ornithology, REP4a-050 Consideration of bioseasons in the assessment of guillemot and REP4a-052 Rates of displacement in guillemot and razorbill. Compensation calculations are based upon the method used by Hornsea Four, which was agreed by the Secretary of State, and is the only method for which relevant precedent is available for auk species.



26. Impact is calculated using a precautionary 50% displacement rate with a 1% mortality rate, as recent studies (for example Trinder et al,2024) have found that this would present a precautionary view of displacement and mortality, as guillemots did not avoid WTGs within their study area. The compensation requirements calculated using the Applicant's approach and the approach recommended by Natural England in their advice within Deadline 5 submission (REP5-167]) are presented in Table 2-1 for guillemot from the Flamborough and Filey Coast SPA and in Table 2-2 for the Flamborough and Filey Coast SPA and Farne Islands combined.

Table 2-1 Compensation requirements based on guillemot impacts to Flamborough and Filey Coast SPA showing Natural England and Applicant approaches

						Compensat ion
					NE	capability
				NE design	success	across
Impact		NE design	NE design	requirem	require	three
(individuals		requirement 1:1	requiremen	ent 3:1	ment	measures
))	Method	(pairs)	t 2:1 (pairs)	(pairs)	(pairs)	(pairs)
	Applicant		-			
18.2	(mean)	77.4	154.7	232.0		3,196
25.8	Applicant (UCL)	109.7	219.3	328.9	77.4	3,196
	Natural England					
248.7	(mean)	1056.8	2113.6	3170.4		3,196
	Natural England					
375.2	(UCL)	1594.3	3188.6	4782.9	1056.8	3,196

Table 2-2 Compensation requirements based on guillemot impacts to Flamborough and Filey Coast SPA and the Farne Islands SPA showing Natural England and Applicant Approaches.

						Compensation capability
		NE design	NE design	NE design	NE success	across three
Impact		requirement	requirement	requirement	requirement	measures
(individuals)	Method	1:1 (pairs)	2:1 (pairs)	3:1 (pairs)	(pairs)	(pairs)
19.9	Applicant (mean)	84.6	169.2	253.8		3,196
28.8	Applicant (UCL)	122.4	244.8	367.2	84.6	3,196
	Natural England					
250.9	(mean)	1066.1	2132.2	3198.3		3,196
	Natural England					
377.9	(UCL)	1605.8	3211.6	4817.4	1066.1	3,196



Table 2-3 Differences between approaches used to calculate impact

	Impact level	Apportioning to SPA	Adult apportioning	Displacement	Mortality
Applicant	Mean Impact	50%	57%	50%	1%
Natural England	Upper 95% CI	100%	100%	70%	2%

27. Using the Applicant's approach to quantifying impact, the capacity to deliver the required quanta of each measure is presented inTable 2-4. Predator control, through implementation of a predator exclusion measure at the Plémont Seabird Reserve (see Predator Control Evidence Base and Roadmap, document 7.6.5), forms the primary measure for guillemot which could deliver all of the compensation required under the Applicants approach. Should further compensation be deemed necessary the Plémont Seabird Reserve could be supported by the suite of 'additional measures' of disturbance reduction and habitat management at sites in south-west England. Additional compensation could also or instead be provided by Artificial Nesting Structures (ANS) should that be deemed necessary. Note that in the case of the ANS, whilst the maximum capacity has not yet been determined, it is expected that this measure could be designed to accommodate the necessary numbers of breeding pairs.

Table 2-4The potential for each measure to deliver the full capacity of required compensation

	Requirement (breeding pairs)	Capacity (breeding pairs)	% of requirement delivered by measure
Predator control	84.6 (Applicant	200	259
	with Farne Islands		
	SPA included)		
Additional	84.6 (Applicant with	1,900	2,454
measures	Farne Islands SPA		
	included)		
ANS	84.6 (Applicant with	1,096	1,444
	Farne Islands SPA		
	included)		
Total across suite	84.6	3,196	4,129
Predator control	1,605.8 (Natural	200	12.5
	England with Farne		
	Islands SPA included		
Additional	1,605.8 (Natural	1,900	118
measures	England with Farne		
	Islands SPA included		
ANS	1,605.8 (Natural	1,096	
	England with Farne		68
	Islands SPA included		
Total across suite	1,605.8	3,196	199

Document Reference: 7.7.2



3 Development of Compensation Options

3.1 Overview

28. The following sections outline the approach taken to the development of the long-list and the short-list of measures for the compensation options for guillemot. The Applicant commenced the identification and development of suitable compensation measures early on in the development process and has continued to consult on these measures through the Evidence Plan Process (EPP).

3.2 Consultation

- 29. Consultation on the compensation measures was commenced through the Evidence Plan Process (EPP), with the set-up of a Derogation and Compensation specific Expert Technical Group (ETG) early on in the development process. After the initial meetings, this group was split into the two relevant technical workstreams (one for benthic ecology and the other for offshore ornithology) and discussions on guillemot compensation continued through the renamed Offshore Ornithology and Compensation ETG.
- 30. Details of the relevant consultation, and where comments are addressed within this document or within the suite of documents in relation to the Ornithological Compensation Strategy, are provided in Table 3-1 below.

Table 3-1: Consultation for ornithology compensation measures

Date and consultation phase/type	Consultation and key issues raised	Section where comment addressed
12 July 2022,	Bycatch reduction: Guillemot and Razorbill.	Section 5.1
Offshore	Natural England queried whether the	
Ornithology,	opportunity to buy out fisheries to reduce	
Derogation and	effort instead of trying to mitigate against	
Compensation	effort. Applicant confirmed this is being	
Expert Topic Group	explored but has considerable challenges.	
12 July 2022,	Fisheries management. Natural England noted	Section 5.5
Offshore	that the most appropriate measure for	
Ornithology,	compensation (subject to additionality) may be	
Derogation and	improving the availability of forage fish, but	
Compensation	recognise that may not be within the gift of an	
Expert Topic Group	individual project level as needs Government	
	intervention	



Date and consultation phase/type	Consultation and key issues raised	Section where comment addressed
28 November 2022, Offshore Ornithology, Derogation and Compensation Expert Topic Group	Natural England queried the interplay between project-specific and strategic compensation workstreams – The Project confirmed that the project was progressing both project-alone options and actively engaging in collaborative/strategic measures equally rather than solely relying on the strategic measures	Section 3.5
20 November 2023, Offshore Ornithology, Derogation and Compensation Expert Topic Group	The Applicant introduced plans for the Plémont Seabird Reserve. Natural England asked: for more information in order to understand the baseline of the area in terms of conservation initiatives and then can understand the potential benefits of the project. Also need to understand the drivers of the population declines; whether a report will cover the extent of, and community engagement with the eradication.	Details on the Plémont Seabird Reserve are presented in the Predator Control Evidence Base and Roadmap (document 7.7.5)
20 November 2023, Offshore Ornithology, Derogation and Compensation Expert Topic Group	The Applicant provided an outline plan to augment existing plans for auk compensation with disturbance reduction, habitat restoration and potentially predator removal measures at a suite of sites in south-west England. Natural England requested further details on the sites (and any designations) and nature of the measures to be implemented, evidence for the existence of pressures, and recommended searching for additional sites in Dorset.	Details on the additional measures are presented in the Additional Measures for Compensation of Guillemot and Razorbill (document 7.7.6)
9 January 2024, Ornithology Compensation Workshop With Natural England	Kittiwake compensation with ANS. The Applicant asked Natural England: To review whether a single ANS (solely for Kittiwake) would be acceptable compensation as a project alone measure ¹ ; whether there was an advised minimum distance between structures should multiple structures be deployed; and, whether the deployment of multiple structures could allow a reduced lead in time. Natural England advised that greater distance between ANS increased resilience and likelihood of success. ANS measures for both kittiwake and auks had been discussed informally before this point.	Section 3.5, with further details in the ANS Evidence Roadmap (document 7.7.4), and the KSCP (document 7.8).



		OFFSHORE WIND
Date and consultation phase/type	Consultation and key issues raised	Section where comment addressed
9 January 2024, Ornithology Compensation Workshop With Natural England	The Project asked whether Natural England would view reduction of predator pressures and reduction of recreational pressures as similarly effective? Natural England explained that a site could be in decline due to a combination of pressures, so built in adaptive management would be required.	Details on the additional measures are presented in the Additional Measures for Compensation of Guillemot and Razorbill (document 7.7.6)
9 January 2024, Ornithology Compensation Workshop With Natural England	In discussion of site selection and implementation of appropriate measures, Natural England explained the need to show feasibility of the measures and then present alternative options and adaptive management if the measures are unsuccessful. The Project explained it would focus on a few key colonies and their multiple pressures, and then look at adaptive management and possible expansion to different sites.	Details on the additional measures are presented in the Additional Measures for Compensation of Guillemot and Razorbill (document 7.7.6)
9 January 2024, Ornithology Compensation Workshop With Natural England	Compensation calculation. The Project confirmed they are using Hornsea Four method for kittiwake and guillemot. Natural England explained that they prefer Hornsea three method. This is supported by a NIRAS report looking at the methods that argues the Hornsea three method is more ecologically robust for kittiwake.	Compensation quanta are presented in Section 2. Compensation quanta calculated using both methods are presented in the KSCP (document 7.8) in relation to kittiwake.

^{1.} At the point of discussion the KSCP was not finalised so discussions focussed on Project alone measures as details of the KSCP could not be shared.



3.3 Longlist

31. The first stages of the compensation strategy involved reviewing all offshore wind projects that have proposed compensation to date. A longlist of compensation options was collated based on previous offshore windfarm (OWF) derogation cases (including compensation measures provided on a 'without prejudice' basis), guidance and advice from Statutory Nature Conservation Bodies (SNCBs), and a review of peer-reviewed literature. The review focused primarily on projects that have submitted DCO applications within the southern North Sea region because these are located within the same geographic region as the Project and are likely to impact similar species and sites. Nevertheless, compensation considered elsewhere in the UK and global examples were also incorporated within the longlist where relevant. In addition, some more novel ideas, yet to be put forward by other projects were also included. The long list of compensatory measures was drawn up as appropriate to the species and habitats affected and was issued to Natural England for review.

3.4 Shortlist Ranking System

- 32. From the longlist, each compensation option was evaluated using a set of criteria established from principles outlined by the then current Defra guidance (Defra, 2021), and was consulted on with relevant stakeholders (Natural England and Royal Society for the Protection of Birds (RSPB)) through the EPP (Table 3-1). Five ranking criteria were developed, which aimed to fairly rate each measure and produce a shortlist of the most viable options (Table 3-2). This provided a clear, replicable, and robust method to rank compensation options relative to each other.
- 33. Each rating criterion was scored on a scale between 1 and 5, (5 being the maximum). The scores were summed for all five criteria for each compensation measure to provide a final score, which was used to rank the measures. For each species, a shortlist of compensation options that scored greater than 15 out of a possible 25 was created, as presented below. The key measures currently being progressed by the Project are supported by Natural England.

3.5 Strategic Options

- 34. Consideration was given to the delivery of compensation through strategic measures as well as the development of Project-alone options. There are currently multiple workstreams looking to develop options for strategic compensation delivery, including the Marine Recovery Fund (MRF) which the UK Government have confirmed will be available for Round 4 projects to access. Two measures specifically for ornithology strategic compensation have been accepted by the Secretary of State for inclusion within the MRF are:
 - Artificial Nesting Structures (ANS) (only for Round 4 projects); and
 - Predator Control.



- 35. Both these measures have been developed by the Project for project-alone measures, and could be adapted to be strategic measures if appropriate. For guillemot, the predator control measure is appropriate and although the ANS measure has been proposed primarily for kittiwake, structures may be designed to accommodate this species as well. Previous consultation with Natural England has indicated some support for this as a measure for auk species and ANS are also included as a potential adaptive management measure for guillemot in the Hornsea Four Development Consent Order (DCO)².
- 36. The Project understands that Natural England regard strategic compensation as highly ecologically effective and that it could provide a solution to species or habitats impacted by multiple windfarms.
- 37. Other strategic initiatives include the development of measures led by organisations such as the Offshore Wind Industry Council (OWIC), for which the Project is a member of the Derogation Subgroup. In addition, measures that can be developed through collaboration between multiple projects or developers are also considered to be strategic options. Consideration as to whether measures could be delivered strategically is provided throughout the report. More detail on delivery mechanisms for strategic options is provided in Section 6.

Without Prejudice Guillemot Compensation Plan

https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010098/EN010098-002330-DC0%20Hornsea%204%20OWF%20signed.pdf



Table 3-2: Criteria used to rank compensation options and scoring principles.

Rating	Targeted	Effectiveness	Technical delivery	Delivery lag	Scale of Impact
Definition	Following the Hierarchy Approach (Defra, 2021). Measures should focus on objectives and targets for the affected species within the National Site Network. They must clearly refer to the structural and functional aspects of the site integrity, and the related types of habitats and species populations that are affected. Higher scores given for like- for-like compensation - lower scores for non-like-for-like.	Confidence that the measure will deliver effective and sustainable compensation for the impact of the project. Ensure the overall coherence of the designated sites network is maintained.	The confidence that the measure can be delivered successfully and be monitored and managed accordingly.	How quickly compensatory measures are expected to be functioning and contributing to the network?	The scale at which the compensatory measure acts can be accurately predicted/quantified
5	Same species, same location. Measure can with certainty benefit birds at the same site (within, adjacent to, within usual foraging range of)	There is strong evidence that the measure is effective, provides a similar ecological function, (e.g. where a measure provides additional breeding space for a breeding population), and does not negatively impact any other sites or features	Technical delivery of measure is well evidenced and achievable without any substantial challenges and there is certainty in the outcomes	Agreed certainty that measures will be functioning before impact occurs with timeframe <2 years	Confident that the benefit can be accurately predicted and adapted to match the required compensation
4	Same species, with connectivity to SPA	There is some evidence that the measure is	Technical delivery is evidenced but	Some certainty that measures will	Some uncertainty in the predicted benefit but



Rating	Targeted	Effectiveness	Technical delivery	Delivery lag	Scale of Impact
	Measure can be utilised by	effective and will provide	some challenges	be functioning	measure can be adapted
	affected species from the	a similar ecological	with delivery and	prior to impact	to match the required
	affected site	function	some uncertainty	occurring < 3 years	compensation
			in the outcomes		
3	Same species, different	There is strong evidence	There is some	Some certainty	Confident that the
	location.	that the measure is	evidence of	that measures will	benefit can be accurately
	Measure can be reached by	effective but does not	delivery and some	be functioning	predicted but unlikely to
	the species and is within the	directly target the same	uncertainty	prior to impact	match the required
	biogeographic region	feature or site	regarding	occurring <5 years	compensation
·			outcomes		
2	Same species, different	There is some evidence	Little to no	Little to no	Some uncertainty in the
	location.	that the measure is	evidence of	certainty that	predicted benefit and
	Measure can be reached by	effective but does not	delivery and	measures will be	unlikely to match the
	the species and is within the	directly target the same	considerable	functioning <10	required compensation
	biogeographic region	feature or site	uncertainty in	years	
			outcomes		
1	Different species	There is little to no	No evidence of	No certainty	Large uncertainty in the
	Measure compensates for a	evidence that the	delivery and	within 10-year	predicted benefit and
	different species	measure is effective and	considerable	timeframe	unlikely to match the
		there is considerable	uncertainty in		required compensation
		uncertainty in outcomes	outcomes		



4 Guillemot

38. Guillemot are a member of the auk family (Alcidae) which form large, densely packed breeding colonies on cliffs during the reproductive season, typically between April and July. During this time, they forage close to the coast and generally feed on small fish and crustaceans. The rest of the year they spend at sea. Guillemot are features at only three SPAs in England, shown in Table 4-1.

Table 4-1: National Site Network SPAs in England with guillemot as a feature.

SPA	Guillemot
Flamborough & Filey Coast	Qualifying feature
Farne Islands	Qualifying feature
Isles of Scilly	Un-named component of the seabird assemblage

- 39. Projects in the southern North Sea region that have recently made DCO applications (e.g. Hornsea Four, and Sheringham Shoal and Dudgeon Extension Projects) have submitted "without prejudice" derogation cases as part of their applications for these species, including consideration of potential compensatory measures. The Secretary of State concluded that a potential for AEoI could not be excluded for guillemot at the FFC SPA for Hornsea Four incombination with other plans, projects and activities, with the Secretary of State requiring compensation to be delivered for the species.
- 40. The Project's RIAA (Document 7.1, section 10) concludes no potential for AEoI on this bird (and assemblage) species at the FFC SPA and Farne Islands SPA, with low impacts predicted from displacement, amounting to an increase in baseline mortality that would make no material contribution to any changes in population or mortality rate. Notwithstanding this conclusion, compensation is being progressed on a 'without prejudice' basis in the event the Secretary of State disagrees with the assessment in the RIAA.
- 41. The primary compensation options identified for guillemot through the shortlisting process were:
 - Bycatch mitigation;
 - Predator control;
 - Offshore artificial nesting structures;
 - Onshore artificial nesting structures; and
 - Reduce fisheries quota.
- 42. Following development of the short-list, a further measure was identified and agreed to be included within the without-prejudice compensation options for auks with the ETG members, namely:
 - Human disturbance reduction and reduction of habitat loss at colonies, that could be implemented across a suite of sites in south-western England where populations of this species would benefit from this measure.

Document Reference: 7.7.2



- 43. A detailed evaluation of options is presented in Table 4-2.
- 44. As described within section 2.1, predator control, through implementation of the Plémont Seabird Reserve, would deliver all of the compensation required under the Applicant's approach. Should further compensation be required, for guillemot this could be delivered through disturbance management or habitat management measures, implemented across a range of appropriate sites. Further compensation capacity could also be delivered through ANS. If needed, delivering the required additional compensation (i.e. any which cannot be delivered through the through Plémont Seabird Reserve alone), via an approach using different measures at different sites through different parts of the UK has the following potential advantages:
 - Can compensate at higher levels than a single measure at a single site,
 - Be more robust to catastrophic events such as outbreaks of HPAI,
 - Be less likely to fail to deliver compensation than a single measure at a single site, and
 - Return birds more broadly across the national site network than measures at single sites.
- 45. All measures described can be delivered either by the project alone or in combination with other projects that have a requirement to deliver compensation.

4.1 Bycatch Mitigation

46. Bycatch mitigation was the highest scoring compensation option for guillemot during the shortlisting process. High numbers of guillemot are known to be subject to bycatch mortality in fishing gear in the UK each year, with up to 2,500 guillemot estimated to be caught annually, mostly attributed to coastal static net fisheries (Northridge *et al.*, 2020). A variety of mitigation measures for seabird bycatch exist which have shown some success in reducing bycatch rates in various trials (Clean Catch UK, 2022). However, many of the options require further trials to evidence their effectiveness and to provide the necessary confidence in the measure. Following further consideration and evidence review, and in cognisance of the compensatory measures being developed by Hornsea Four and promoted by other OWF projects, it is not currently considered that bycatch reduction is available as a viable compensation option for the Project, due to limited availability of fisheries within which this measure could be developed that would have a meaningful contribution to the quantum which may be required for the Project. As such, this measure has not currently been progressed, however, it will be kept under review in the event that new evidence of its efficiency or alternative options to implement this measure become available.

Habitats Regulations Assessment



4.2 Predator Control

- 47. Predation by invasive mammals is highlighted as the top global threat to seabirds (Dias *et al.*, 2019), with guillemot being among the species impacted in the UK. Eradication of predators at sites in the UK has shown to lead to large increases in productivity and subsequently population size, especially on islands (e.g. Lundy; JNCC, 2022), with guillemots benefitting among other species. Likewise, these effective eradication measures have also led to colonisation of new or historically used sites, and effective biosecurity and adaptive management plans have thus far prevented reinvasion.
- 48. The proposed Plémont Seabird Reserve, which historically hosted a population of guillemot has been identified. Non-native predator populations have been monitored at the site, and a full feasibility study into the provision of a predator control measure has been carried out. Results show that four species of non native predator are present at the site, and that predator proof fence construction and implementation of control measures is feasible (document reference 7.7.5 version 4).
- 49. Predator control may also be considered at other sites targeted for disturbance reduction and habitat management, should it become clear that populations of guillemot are being limited at the identified sites by non-native predators.
- 50. Predator eradication at breeding colonies is considered a feasible option for guillemot. Depending on the site, predator reduction or exclusion, as opposed to a full eradication, may be considered more appropriate. Detailed information regarding the progress of this as a compensation measure, including ecological evidence and a roadmap to implementation is provided in Predator Control Evidence and Roadmap (Document 7.7.5), see particular detail in relation to the following sections:
 - Evidence for the effectiveness of predator control (section 3 of document 7.7.5);
 - Site selection (section 2 and 3.2 of document 7.7.5);
 - Details regarding the Plémont Seabird Reserve (section 3 of document 7.7.5);
 - Monitoring and adaptive management (section 4 of document 7.7.5);
 - Scale of compensation delivery (section 3.5 of document 7.7.5);
 - Funding (section 6 of document 7.7.5); and
 - Programme for delivery (section 5.2 of document 7.7.5).



4.3 Offshore Artificial Nesting Structures

- 51. Offshore artificial nesting structures will aim to increase nesting space for guillemot, offering new breeding locations within range of optimal foraging habitat and preferably located at a suitable distance away from predation and anthropogenic pressures (e.g. OWFs). In comparison to kittiwake, evidence of both extensive guillemot breeding on offshore artificial structures in the UK is currently limited, albeit growing, but there is clear evidence of guillemot (and razorbill) with eggs on offshore platforms (Ørsted, 2021a; document 7.7.4). Surveys of offshore installations in the vicinity of the Project, carried out by the Applicant in 2022 and 2023, showed populations of guillemot showing behaviour consistent with breeding birds (such as aggregating on, and facing inwards on ledges) Proof of breeding was not possible as the survey vessel was not high enough to see whether birds were incubating, however subsequent evidence from platform owners has shown guillemot to be breeding on platforms within 20 km of the project (document 7.7.4) . Further evidence of both species breeding on offshore installations in UK waters was presented by Ørsted (Ørsted, 2021).
- 52. Consequently, offshore artificial structures are currently considered a feasible option for guillemot. Detailed information regarding the progress of this as a compensation measure, including ecological evidence and a roadmap to implementation is provided in Offshore Artificial Nesting Structures Ecological Evidence and Roadmap (Document 7.7.4), see particular detail in relation to the following sections:
 - Evidence for the effectiveness of offshore artificial nesting (section 3 of document 7.7.4);
 - Design considerations (section 4.2 of document 7.7.4);
 - Site selection (section 4.3 of document 7.7.4);
 - Monitoring and adaptive management (section 4.4 of document 7.7.4);
 - Scale of compensation delivery (section 4.5 of document 7.7.4);
 - Funding (section 4.6 of document 7.7.4); and
 - Programme for delivery (section 4.7 of document 7.7.4).
- 53. It is likely that this measure, if taken forward, would be delivered as part of a multi-species artificial nesting structure, which would also include space for kittiwake.

4.4 Onshore Artificial Nesting Structures

- 54. Onshore artificial nesting structures aim to increase nesting space for guillemot, offering new nesting locations near to productive foraging habitat, and away from predation and anthropogenic pressures (e.g. OWFs). Evidence of guillemot breeding successfully on onshore artificial structures exists (e.g. the Karlsö murre lab; Stockholm Resilience Centre, 2020), though notably this is within an existing colony and outside of the UK.
- 55. The Project does not consider onshore artificial nesting structures to be a preferred compensatory measure, however it has not been excluded as a potential option, if it becomes appropriate in the future.



4.5 Reduce Fisheries Quota

- 56. Prey availability has been evidenced as a key limiting factor suppressing the breeding success of guillemot and other seabird species. This has been particularly evidenced for guillemot populations within the North Sea, with a declining availability of key food sources, especially sandeel (Harris *et al.*, 2022; Anderson *et al.*, 2013). The most effective way this measure could be achieved would be to restrict fishing on sandeel, sprat or juvenile herring in UK waters.
- 57. On 31st January 2024, the UK Government announced that the sandeel fishery in English waters would be permanently closed from 1st April 2024. This was matched by an announcement by the Scottish Government to close the sandeel fishery in Scottish waters from the same date. Therefore, this is not currently considered to be available as a compensation option.

4.6 Reduction of human disturbance

- 58. While impacts from disturbance are difficult to quantify, the Project considers the reduction of disturbance a feasible approach for contributing towards compensation. Disturbance at seabird colonies can result from noise or close approach from both visitors on foot (either along clifftop paths or through coasteering along the cliff base), or from vessels. These impacts can be addressed though education of visitors (either on site through signage, or through online campaigns), presence of wardens, or through either mandatory or voluntary access restrictions.
- 59. The Applicant has provided a thorough summary of evidence of the impacts of human disturbance on breeding seabirds and in particular, on guillemot and razorbill. For more information on this pressure and how its reduction may benefit breeding populations of guillemot and razorbill, see Additional Measures for Compensation of Guillemot and Razorbill Evidence Base and Roadmap (document 7.7.6), see particular detail in relation to the following sections:
 - Evidence for the effectiveness of reduction of human disturbance (section 4.1 of document 7.7.6);
 - Design considerations (section 7.2 of document 7.7.5);
 - Site selection (section 5 of document 7.7.5);
 - Monitoring and adaptive management (section 7.4 of document 7.7.6);
 - Scale of compensation delivery (section 7.1 of document 7.7.6);
 - Funding (section 7.5 of document 7.7.6); and
 - Programme for delivery (section 4.6 of document 7.7.6).



60. The next steps will be to assess the best approaches to reduce human disturbance on a site by site basis at colonies where this measure could be implemented. This will be based on results from surveys carried out during the breeding season of 2024 at a suite of sites in Devon and Cornwall. The surveys determined the nature and scale of any disturbance across these sites as well as providing information on colony sizes and colony level productivity (where possible). The results of these surveys are presented in 7.7.6 Additional Measures for Compensation of Guillemot and Razorbill, and include evidence of anthropogenic (vessel based) disturbance across several sites, along with some evidence of disturbance from avian predators.

4.7 Reduction of habitat loss

- 61. Encroachment of plant species (such as tree mallow, *Lavatera maratima*) or communities into potential breeding habitat can restrict the space available to breeding birds, and as such, limit the numbers breeding at a particular location. Encroachment of vegetation can also contribute to the limiting of breeding numbers or success, by affording cover to predators. Management of encroaching vegetation is feasible at any site that can be accessed, although the approach will need to be considered on a site by site basis. Progression of this measure will begin with the identification of any short-listed sites that would benefit from vegetation management, and where habitat management is not already in place. Further detail on this measure and potential sites where it could be progress is detailed in Additional Measures for Compensation of Guillemot and Razorbill Evidence Base and Roadmap (document 7.7.6), see particular detail in relation to the following sections:
 - Evidence for the effectiveness of reduction of habitat loss (section 4.1 of document 7.7.6);
 - Design considerations (section 7.2 of document 7.7.5);
 - Site selection (section 5 of document 7.7.5);
 - Monitoring and adaptive management (section 7.4 of document 7.7.6);
 - Scale of compensation delivery (section 7.1 of document 7.7.6);
 - Funding (section 7.5 of document 7.7.6); and
 - Programme for delivery (section 4.6 of document 7.7.6).

Document Reference: 7.7.2



Table 4-2: Shortlisted compensation options for guillemot.

Compensation Measure	Targeted	Effectiveness	Technical delivery	Delivery lag	Scale of Impact	Potential to deliver at a strategic level?	Rating
Bycatch	4	3	3	4	5	No	19
mitigation	This measure focuses	ICES (2013),	Implementing	May take some	The benefit can be		
	solely on the target	Bradbury et al.	measures to	time to	accurately		
	species but is unlikely	(2017) and	prevent bycatch	implement,	predicted or		
	to directly benefit	Northridge et al.,	(such as high	particularly if	measured in		
	species from FFC SPA	(2020) identified	visibility netting,	there is a need to	retrospect and		
	due to the lack of	guillemot &	above water	work with other	adapted to match		
	active fisheries in	razorbill as	deterrents and	regulatory bodies	the required		
	that area.	species known to	changes in	or partners.	compensation at a		
		be caught or	practice) would	Focusing on a	defined ratio if		
		sensitive to	reduce this	single and/or	fisheries are		
		bycatch in	pressure.	smaller scale	willing/incentivised		
		European and UK	However, a	,			
		waters. Žydelis	number of these	UK may reduce	measures.		
		(2013) also	methods are not	timescales.			
		highlighted guillemot &	evidenced. Successful	Overall, relatively			
		guillemot & razorbill as most	delivery has been	quick to implement at a			
		concern for	evidenced for	small scale.			
		bycatch within	auks (e.g., Filey	Siliali Scale.			
		gillnet fisheries in	Bay) but a lack of				
		northern Europe.	data on bycatch				
		However, limited	acca on Sycaton				



Compensation Measure	Targeted	Effectiveness	Technical delivery	Delivery lag	Scale of Impact	Potential to deliver at a strategic level?	Rating
		monitoring of seabird bycatch has been done in European waters. Some evidence that mitigation measures are effective for auk species.					
Predator control	Anticipated direct benefit to auks with some direct connectivity to FFC SPA although the level of connectivity is unknown due to the proximity to the SPA. Measure will be undertaken following feasibility study to ascertain predation pressure on auks at various colonies.	Some evidence is available for this species in relation to predation pressure. Considerable evidence base exists for predator eradication and/or control from seabird colonies in general. Calculations will	removal is well evidenced at UK	Measure will require a feasibility study to ascertain the presence of predators. This will require gathering local knowledge and potential site visits along with surveys. Eradication and/or control	Some uncertainty in the predicted benefit but measure can be adapted to match the required compensation at a defined ratio.	Yes	18



Compensation Measure	Targeted	Effectiveness	Technical delivery	Delivery lag	Scale of Impact	Potential to deliver at a strategic level?	Rating
		be required to		scheme may also			
		understand the		take at least 3			
		extent of		years. Potential			
		measure.		for measure to be			
		Multiple colonies		<5 years.			
		can be targeted to					
	_	increase extent.	_	_	_		
Offshore	4	3	3	4	4	Yes	18
artificial 	Direct benefits to	Some evidence of	There is some	Offshore likely to			
nesting	guillemot and	both guillemot	evidence that	be deliverable in	0		
structures	razorbill and likely to have some	and razorbill	offshore nesting structures are	short time frame	•		
		nesting on manmade	structures are feasible but there	(within 3 to 5 years) and			
	connectivity to FFC SPA.	artificial nesting	is some	years) and therefore before			
	SFA.	structures in	uncertainty	anticipated	numbers of birds		
		proximity to	regarding	impact.	that will choose to		
		colonies (e.g.	outcomes.	impact.	nest there.		
		Stora Karlsö Lab)	outcomes.		nest there.		
		alongside recent					
		evidence of both					
		species nesting on					
		a structure in UK					
		waters (Ørsted					
		2021). Evidence					
		of this species					



Compensation Measure	Targeted	Effectiveness	Technical delivery	Delivery lag	Scale of Impact	Potential to deliver at a strategic level?	Rating
Onehous		nesting on manmade structures within 20km of the Project (document 7.7.4)	2			Voc	16
Onshore artificial nesting structures	Directly benefits the target species but unlikely to be near FFC SPA.	Some evidence of both guillemot and razorbill nesting on manmade artificial nesting structures in proximity to colonies (e.g. Stora Karlsö Lab) but no solid evidence of colonisation of artificial structures away from a colony.	Technical delivery is evidenced but it is likely to be challenging to find an appropriate location for a new nesting structure in proximity to FFC SPA.	Onshore likely to be deliverable in short time frame (within 3 to 5 years) and therefore before anticipated impact.	designed to compensate for the desired number of	Yes	16



Compensation Measure	Targeted	Effectiveness	Technical delivery	Delivery lag	Scale of Impact	Potential to deliver at a strategic level?	Rating
Reduce	4 Can have direct	4 Prov availability is	2 Feasible if	1	4 Sufficient change in	Yes	15
fisheries quota	Can have direct connectivity for guillemot and razorbill at FFC SPA and the wider biogeographic region	Prey availability is a key limiting factor in guillemot and razorbill breeding success. Excluding fisheries from a large area may increase prey availability. Climate change is also a limiting factor related to prey availability.	Feasible if delivered by government through the common fisheries policy. Only relevant bodies such as IFCAs and MMO have powers to implement closed areas to fishing in UK waters. As the sandeel fishery has been closed indefinitely, options for implementing further fisheries closures as	As the sandeel fishery has been closed indefinitely, options for implementing further fisheries closures as measures for compensation are likely not available	quota would likely provide benefit to guillemot and razorbill. Scale likely to be large and therefore compensate a significant margin above numbers of		
			measures for compensation are likely not available.		order to quantify any impact.		



Compensation Measure	Targeted	Effectiveness	Technical delivery	Delivery lag	Scale of Impact	Potential to deliver at a strategic level?	Rating
Reduction of	3	4	3	3	2	Yes	15
human	Direct benefit to auks	Some evidence	Delivery of these	Measures should	,		
disturbance	with some direct	the auk	measures can be	in theory provide	that benefits will		
	connectivity to the	productivity is	evidenced, but		·		
	SPA, although with	impacted by	positive	birds into the			
	exact levels of	human	outcomes lack	breeding	difficult to		
	connectivity	disturbance, and	certainty, and	population after	quantify.		
	unknown due to the	likelihood that	would be difficult	5 years.			
	distance between the	disturbance is a	to quantify.				
	measure and the	factor at sites					
· · · · · · · · · · · · · · · · · ·	SPA.	identified.		2	2		4.6
Reduction of	3	3	4	3	3	Yes	16
habitat loss	Direct benefit to auks	Evidence that the	Evidence that this	Measures should	Benefits are		
	with some direct	measure could be	measure is	provide	predictable and		
	connectivity to the	effective, but	effective in provision of	additional adult birds into the	,		
	SPA, although with exact levels of	uncertainty as to the applicability	additional	breeding	unlikely to deliver the required		
	connectivity	of the measure at	habitat.	population (and	' '		
	unknown due to the	short-listed sites.	Habitat.	potentially into	single site.		
	distance between the	Short fisted sites.		the national site	Single site.		
	measure and the			network after 5			
	SPA.			years.			



5 Further Considerations

- 62. The Applicant is confident that compensation could be provided for any AEoI from the construction and operation of the Project in-combination, if it is identified as necessary by the Secretary of State. The Applicant is continuing to develop the measures prior to, and will continue to do so throughout, Examination.
- 63. Although a variety of options have been identified for guillemot, it is acknowledged that there are currently further considerations to be progressed to achieve successful implementation. For example the inability for the Project to implement wide-scale measures across the UK and influence other industries to alter their practices. This means that some of the potentially most effective compensation options, such as fisheries management measures, would need to be strategically led by government (see Section 6). The Project is a member of the Offshore Wind Industry Council (OWIC), a senior Government and industry forum, which may provide a mechanism to aid collaboration across the industry. Strategic collaboration between developers will be supported by the Project where these have the potential to deliver effective compensation measures within the timeframe required.

5.1 Highly Pathogenic Avian Influenza (HPAI)

64. The recent outbreak of HPAI among seabirds has the potential to influence populations for a considerable time. If seabird populations have reduced in size and there are insufficient numbers of non-breeders in the population to occupy available nesting spaces, then compensation measures aiming to provide additional nesting sites may not be so effective in the short term because nesting site availability may not currently be a limiting factor on population growth. Currently, there is uncertainty in the size of the non-breeding pool of adults and it is helpful to develop this understanding to support the use of artificial nesting as a compensation measure. The monitoring of artificial nesting structures currently being developed and monitoring of colonies that have suffered from the effects of HPAI are expected to provide evidence in this respect. Although there is limited data available to date, initial responses at colonies impacted by HPAI indicate populations are increasing in number post infection. As such consideration of HPAI in the context of limited available nesting space may not be necessary. The Applicant notes that enhancing colonies at a range of locations and creation of a new, geographically discreet colony at a North Sea ANS can only provide resilience to the wider razorbill population in the event of any future HPAI outbreak.



6 Strategic delivery

6.1 Overview

- 65. To date, it has been the responsibility of individual developers to develop and provide compensation. This has been driven predominantly by the differences in timings of individual projects coming forwards which has created challenges for strategic/collaborative approaches, but also because there has been a lack of a strategic framework in the regulatory process and with clear Government support. Individual projects developing compensation can also create challenges, for example, competition for preferred compensation sites, differences in approaches to evidence, design and/or monitoring, limitations in the ability to share information and learning, issues around success liability, and importantly, having to evidence small scale (project-level) results.
- 66. An alternative solution is to adopt a coordinated large-scale, strategic-level approach to compensation delivery for OWFs in the UK. There are numerous benefits to delivering at scale, including delivering compensation on a collaborative basis, which in turn will help reduce ecological risk and provide confidence in achieving the required population level (e.g. by spreading the risk over multiple measures) resulting in a substantially enhanced outcome. Furthermore, developing small scale measures tends to be very expensive, with unknown future liabilities which can cause commercial issues which whilst not a consideration within Habitats Regulations Assessment (HRA) decision making, are central to the operational success of delivering an OWF project, and consequently the compensation measure. A co-ordinated approach can also avoid the need for individual projects to overcompensate which subsequently reduces the range of options for subsequent projects (i.e. multiple developers could benefit from one measure), as well as providing a mechanism to deliver compensation measures that cannot be delivered by developers e.g. measures that require Government such as fisheries management.
- 67. A key target within the British Energy Security Strategy (BESS) is to reduce the time taken to consent offshore wind projects, with the development of ecological compensation flagged as time critical. Likewise, a Cross-government Nationally Significant Infrastructure Projects (NSIP) Action Plan 2023 (DLUHC, 2023), and a "Nature Recovery Green Paper: Protected Sites and Species" have been published with the aim to reduce consenting times (Defra, 2022). These measures include the Marine Recovery Fund to enable an accelerated build out of projects, by delivering compensation strategically ahead of project operation.



6.2 Round Four Plan-Level HRA

- 68. As part of the Plan-Level HRA for the Round Four projects, The Crown Estate (the competent authority) concluded an AEoI in-combination for the Round Four Plan for kittiwake at FFC SPA. The Plan-Level HRA proceeded on the basis of a derogation, with compensation required in the form of a Kittiwake Strategic Compensation Plan. The KSCP is a forum through which the strategic delivery of compensation for the Round Four Plan will be delivered. The Project, as part of the Round Four Plan and one of the three projects contributing to an AEoI, is committed to supporting The Crown Estate in its delivery of the KSCP to enable strategic compensation for kittiwake.
- 69. The KSCP has been produced (document 7.8) and the primary measure proposed for the delivery of the required compensation is offshore ANS. The Project will continue to engage with the KSCP throughout the post-application phase. Although the KSCP focusses entirely on compensation delivery for kittiwake, nesting space for other species has not been precluded from the ANS design.

6.3 OWIC

- 70. The Applicant is an active member of OWIC and has contributed towards the delivery of various strategic compensation case studies that have been completed to date. The OWIC group is currently developing four topics as strategic compensation for a pilot approach, two of which are relevant to seabirds, and both of which have been included in the library of measures by the Secretary of State:
 - Artificial nesting structures (for Round 4 projects only); and
 - Predator control or eradication.
- 71. For guillemot, the predator control measure is appropriate and although the ANS measure has been proposed primarily for kittiwake, such structures may be designed to accommodate this species as well. Previous consultation with Natural England has indicated some support for this as a measure for auk species and ANS are also included as a potential adaptive management measure for guillemot in the Hornsea Four DCO. The Project also has members contributing towards the Collaboration on Offshore Wind Strategic Compensation (COWSC) Expert and Delivery groups.
- 72. The Applicant will continue to engage actively in the OWIC workstreams and support the development of the strategic delivery of compensation measures for the relevant sites/features through this collaborative initiative. The two measures listed above have recently been accepted by the Secretary of State for inclusion within the MRF as collaborative compensation options.



6.4 Marine Recovery Fund (MRF)

- 73. The creation of the MRF is a clear step forward in establishing a mechanism through which multiple projects can secure access to suitable compensatory measures that are delivered at a strategic level. The Applicant believes this mechanism has the potential to enable the greatest ecological benefit to the National Site Network, whilst also enabling the timely delivery of required measures and as a result accelerating the deployment of offshore wind in line with Government policy.
- 74. The Applicant understands that the MRF will be in place prior to the end of 2025 and will be available to rely upon for the purpose of delivering compensation if required as described in the Strategic compensation measures for offshore wind activities: Marine Recovery Fund interim guidance issued by DESNZ on the 29/01/2025 (DESNZ, 2025)
- 75. The DESNZ guidance states:
- "24. When preparing their draft DCO, applicants may also wish to include a provision allowing for a contribution to be made into the MRF in substitution for delivering the ANS or predator control compensation measure(s) themselves. Any such provision should usually restrict works which give rise to the adverse effect for which compensation is required until evidence has been provided that:
 - an appropriate level of compensation has been secured through the MRF,
 - the amount of any such contribution into the MRF has been agreed between Defra/the MRF Operator and the applicant, and
 - payment has been made for the compensation measure.
- 25. This provision does not guarantee that such measures, which form part of the MRF, will be available and the relevant SNCB will be consulted regarding any such provisions. Note that this formulation alone cannot be relied upon for consent at this time, and must be provided alongside project-specific ornithological compensation measures.
- 26. Applicants whose approved DCO includes strategic compensation measures will, once the MRF is operational, be required to provide evidence to DESNZ Secretary of State that payment has been agreed with and made to the MRF Operator. Works which give rise to the adverse effect for which strategic compensation is required will usually not be permitted to take place until these provisions have been made and the strategic compensation has been in place for a timeframe determined by the DESNZ Secretary of State. The Secretary of State may consider circumstances where the adverse effect can occur before compensation is in place, however this would need to be considered against other factors."
- 76. Defra have advised that two measures for ornithology compensation will be available through the MRF, both of which are included in the library of measures by the Secretary of state:
 - Offshore artificial nesting structures (Round Four projects only); and
 - Predator control.







7 Conclusion

- 78. This document presents the strategy which has been followed by the Applicant in the development of the compensatory measures currently considered to be most appropriate, and proposed for the Project for the without-prejudice case for guillemot (and the assemblage) at the FFC SPA and for guillemot at Farne Islands SPA. It has detailed the approach to the development of the long-list and short-list of measures to be explored, as well as the reasoning for the subsequent progression or rejection of measures. Background on the relevant strategic workstreams which the Project has engaged in has also been provided.
- 79. A compensation implementation and monitoring plan to deliver any required compensation through measures currently considered to be most appropriate for this species will be prepared based on the strategy set out in the final version of this Plan, as secured in Schedule 22 of the Development Consent Order. The final decision on which measures to implement will be presented for approval pursuant to Schedule 22 and may include one of or a combination of measures set out in the final version of this Plan (including if appropriate measures to be delivered collaboratively; contribution to measures being delivered by another party; or a contribution to the MRF).
- 80. The most appropriate measures identified through this process and for which the evidence base and roadmaps have been developed are :
 - Predator control (document 7.7.5);
 - Management of human disturbance and habitat improvement (Document 7.7.6).
 - Offshore artificial nesting structures (document 7.7.4);
- 81. Predator control, through implementation of the Plémont Seabird Reserve, forms the primary measure for guillemot which would deliver all of the compensation required under the Applicants approach. Should further compensation be required, for guillemot this could be delivered through the disturbance management or habitat management measures, implemented across a range of appropriate sites. Further compensation capacity could also be delivered through ANS if required.
- 82. Each of the evidence base and roadmaps for these measures have been developed to demonstrate that each measure is robust, will contribute to the maintenance of the National Site Network if implemented, and can deliver the necessary quantum of compensation for the range of predicted impacts.



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