



Environmental Impact Assessment Report

Volume 4

Appendix 10.2 Representative Scenario and Limits of Deviation Assessment





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APPENDIX 10.2 REPRESENTATIVE SCENARIO AND LIMITS OF DEVIATION ASSESSMENT

1 Introduction

- 1. Complex, large-scale infrastructure projects with a terrestrial and marine interface such as the CWP Project, are consented and constructed over extended timeframes. The ability to adapt to changing supply chain, policy or environmental conditions and to make use of the best available information to feed into project design, promotes environmentally sound and sustainable development. This ultimately reduces project development costs and therefore electricity costs for consumers and reduces CO₂ emissions.
- 2. Case law recognises that the plans and particulars submitted with planning applications can allow for a certain limited flexibility, where this is applied reasonably and, in a context-specific way. In addition, section 287A of the Planning and Development Act (PDA) (as inserted by the Planning and Development, Maritime and Valuation (Amendment) Act 2022) has expanded the flexibility available and allows planning applications to be made and decided before the Applicant has confirmed certain details of the project.
- 3. Due to the complexity of the Codling Wind Park (CWP) Project, significant and rapid progression in wind farm technology development, potential changes in environmental conditions and in policy and legislation, the Applicant considers that consenting a degree of design flexibility is appropriate and legally compliant.
- 4. In this regard the approach to the design development of the CWP Project has sought to introduce flexibility where required to enable the best available technology to be constructed, whilst at the same time to specify project boundaries, project components and project parameters wherever possible, whilst having regard to known environmental constraints.

2 Approach to Presenting the Project Design

- 5. The approach to the design development of the CWP Project considers permanent infrastructure, temporary infrastructure and installation methods.
- 6. In general, the CWP Project has sought to specify the location, scale and extents of permanent and temporary infrastructure, however in some cases a degree of design flexibility is required. Subject to the detail concerned, this flexibility is presented in three ways:
 - Options: Consent is sought for up to two options for certain permanent infrastructure details and layouts, for example, wind turbine generator (WTG) Layout Option A (250 m rotor diameter) or WTG Option B (276 m rotor diameter). Each design option is described in detail in Chapter 4 Project Description, which provides the details associated with each option.
 - **Dimensional flexibility**: Dimensional flexibility is described as a limited parameter range i.e. upper (maximum) and lower (minimum) values for a given detail such as cable length.
 - Locational flexibility: Locational flexibility of permanent infrastructure is described as Limit of Deviation (LoD) from a specific point or alignment.
- 7. Installation methods for permanent infrastructure have been identified and described in full, however, as with the design of permanent infrastructure, a degree of flexibility is required as final decisions on methods and techniques to be employed will not be made until the appointment of the primary contractors closer to the time of construction.

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8. Where required, flexibility concerning installation methods is presented by means of options. The details associated with the installation methods are specified, where possible, or otherwise described as a limited parameter range i.e. upper (maximum) and lower (minimum) values for a given detail.

3 Representative Scenario Assessment

- 9. The CWP Project Environmental Impact Assessment Report (EIAR) will identify, describe and assess all of the likely significant effects of the proposed development on the environment. To achieve this for all options and dimensional flexibility, and at the same time to produce application documents that are concise and readable, each chapter of the EIAR will assess a selection of representative scenarios, rather than assessing every possible scenario. A "representative scenario" is a combination of options and dimensional flexibility that has been selected to represent all of the likely significant effects of the project on the environment. Some topics may require several representative scenarios to be identified to ensure all impacts are identified, described and assessed.
- 10. For ornithology this analysis for construction and operation and maintenance (O&M) phase impacts is presented in **Table 1** and **Table 2**, respectively. Each table identifies one or more representative scenarios for each impact with supporting text to demonstrate that no other scenarios would give rise to new or materially different effects; taking into consideration the potential impact of other scenarios on the magnitude of the impact or the sensitivity of the receptor(s) that is being considered.
- 11. Where the potential for a new or materially different impact is identified, then further representative scenarios must be assessed in full within the main chapter.
- 12. This is distinct from the approach to assessing locational flexibility, where differences in impacts are assessed in this Appendix. The difference in approaches arises because there is a much higher degree of confidence in the locations and alignments assessed in the main chapter than there is for the final options and dimensions.
- 13. Overall, this approach will ensure that the EIAR will identify, describe and assess:
 - Every impact type that could arise from the proposed development, taking account of the full range of options and dimensional flexibility;
 - Every materially different magnitude of impact that could arise from the proposed development within the proposed options and dimensional flexibility; and
 - Every materially different sensitivity of receptor that could arise from the proposed development within the proposed options and dimensional flexibility.



Table 1 Representative scenario assessment - Construction phase impacts

Impact	Relevant project details			Rationale for representative so	cenario(s)			
Impact 1: Direct effects on offshore and intertidal habitats	Array site (including WTGs, inter- array cables (IACs), interconnectors and offshore substation structures (OSSs))	WTG Option A	WTG Option B	Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response		
during construction	Permanent infrastructure (WTGs, Cinfrastructure)	OSSs, IACs and	associated	Impact pathways identified and parameters selection to	Are there infrastructure layout options (permanent or temporary) which may	No, WTG Option A would not introduce any new impacts. Therefore, WTG Option B forms the		
		per OSS towe bases.	r relation to choice; 70.88 m² r, three OSS temporary n relation to	and parameters selection to quantify impact magnitude Non-foraging related habitat use equates to use of sea surface. The only parameters relating to spatial and temporal occupation of the array site during construction are those listed. Seabed habitat effects are considered in relation to effects on prey species. Option(s) considered as representative scenario and why WTG Option B forms the representative scenario as this represents the greatest extent of direct effects on habitat. Option(s) assessed and why Option B. Although Option A would result in a very slightly lower level of direct effects on habitat it would not introduce any new impacts and would not result in a difference to assessed impact magnitude. The difference in sea surface area affected is minimal relative to the baseline available sea area. (permanent or temporary) which m introduction of an existing impact to a new receptor. 2. Are there infrastructure layout of (permanent or temporary) which m introduce a materially different main introduce a material introduce a material introduce a material introduce a material introduce any new impacts and would not result in a difference to assessed impact magnitude. The difference in sea surface area affected is minimal relative to the baseline available sea area.	introduce new impacts? Note - this could be a new impact entirely or the introduction of an existing impact pathway to a new receptor. 2. Are there infrastructure layout options (permanent or temporary) which may introduce a materially different magnitude of impact? 3. Are there infrastructure layout options (permanent or temporary) which may introduce a material change in the sensitivity of the receptor(s) (greater or lesser)? 4. Are there alternative installation methods which may introduce new impacts? 5. Are there alternative installation methods which may introduce a materially different magnitude of impact?	representative scenario basis for the assessment with WTG Option A conclusions being no different. 2. No, WTG Option A would not give rise to a materially different magnitude for Offshore / Intertidal Impact 1 (Direct effects on habitat) than Option B. Therefore, WTG Option B forms the representative scenario basis for the assessment with WTG Option A conclusions being no different. 3. No, WTG Option A will not influence the sensitivity of assessed receptors. Receptor sensitivity to this impact is not influenced by array site design option choices. Therefore, WTG Option B forms the representative scenario basis for the assessment with WTG Option A conclusions being no different. 4. No, no variation in installation methods is proposed in relation to design option choice. 5. No, no variation in installation methods is proposed in relation to design option choice.		
	Offshore export cable corridor (OE)	CC) (cMLWS)			which may materially alter the sensitivity of the relevant receptor(s) (greater or lesser).	6. No, no variation in installation methods is proposed in relation to design option choice. Response		
	Onshore export cable corndor (OE)	(<ivilvv3)< td=""><td></td><td>Representative scenario selection</td><td>Questions to demonstrate assessment has considered all scenarios</td><td>Response</td></ivilvv3)<>		Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response		
	Permanent infrastructure OECC and associated infrastructur	Permanent infrastructure OECC and associated infrastructure			No alternative scenarios for consideration in assessment.			
	Sea surface area covered by OECC and associated infrastructure (m²)	No variation in infrastructure i design option No OECC or a permanent infit footprint at sea	n relation to choice associated astructure					



Impact	Relevant project details			Rationale for representative so	cenario(s)	
	Temporary infrastructure (Installation	on vessels)				
	Maximum number of construction vessels within OECC at one time	No variation in infrastructure in design option of	relation to			
	OECC (MLWS to MHWS)		lal cable t trenches)	Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response
	Installation methods and effects			Impact pathways identified	Are there infrastructure layout options	1. No, only a single option.
	Volume of intertidal habitat impacte	d		and parameters selection to quantify impact magnitude	(permanent or temporary) which may introduce new impacts?	
	Total area disturbed by cofferdam (m²)	6,	100	Alteration of habitat within intertidal areas.	Note - this could be a new impact entirely or the introduction of an existing impact pathway	2. No, only a single option.3. No, only a single option.
	Total area disturbed by intertidal cable duct installation (m²)	36	,000	impact is described by parameters relating to the volume of intertidal habitat impacted during construction. Option(s) considered as representative scenario and why WTG Option A forms the 2. Are the (permane introduce impact? 3. Are the (permane introduce impact)	to a new receptor. 2. Are there infrastructure layout options	4. No, no variation in installation methods is
	Total area in transition zone affected by support structures (m²)	6,	900		(permanent or temporary) which may introduce a materially different magnitude of impact? 3. Are there infrastructure layout options (permanent or temporary) which may (permanent or temporary) which may 6. No, no variation in installation in installati	proposed in relation to design option choice. 5. No, no variation in installation methods is
	Total area of seabed in transition zone affected by installation of cables using either open cut trenching or a shallow water trenching tool (m²)	108	3,000			proposed in relation to design option choice. 6. No, no variation in installation methods is proposed in relation to design option choice.
	Total area of disturbed intertidal habitat for landfall (intertidal OECC installation) construction activities (m²)	157	7,000	of direct effects on habitat (I.e. greatest extent of intertidal habitat alteration during construction)	4. Are there alternative installation methods which may introduce new impacts?	
	,			Option(s) assessed and why Option A. Although Option B	5. Are there alternative installation methods which may introduce a materially different magnitude of impact?	
				would result in a very slightly lower level of direct effects on habitat it would not introduce any new impacts and would not result in a difference to assessed impact magnitude.	6. Are there alternative installation methods which may materially alter the sensitivity of the relevant receptor(s) (greater or lesser).	
Impact 2: Disturbance and displacement to ornithological	Array site	WTG Option A	WTG Option B	Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response
receptors in offshore and intertidal habitats	Permanent infrastructure (WTGs, C infrastructure)	OSSs, IACs and a	associated			No, WTG Option B would not introduce any new impacts. Therefore, WTG Option A forms the



Impact	Relevant project details			Rationale for representative so	cenario(s)		
during construction phase activities.	Area of array site and surrounding buffer.	No variation in methods in rela option choice Array site + 2 k 229.61 km ² Array site + 4 k 358.63 km ²	tion to design m buffer =	Impact pathways identified and parameters selection to quantify impact magnitude Extent of displacement relates to area of array site and appropriate buffer (2 or 4 km dependant on species) and also number and duration of	(permanent or temporary) which may introduce new impacts? Note - this could be a new impact entirely or the introduction of an existing impact pathway to a new receptor. with WTG Option B conclusions being no differ 2. No, WTG Option B would not give rise to a materially different magnitude for Offshore/Intertidal Impact 2 (Disturbance and	materially different magnitude for Offshore/Intertidal Impact 2 (Disturbance and Displacement) than Option A. Therefore, WTG	
	Maximum hours of piling per WTG / OSS monopile (WTG Options A and B)	3	.5	vessel movements during construction phase.		for the assessment with WTG Option B	
	Maximum number of monopiles WTG / OSS installed in 24 hours (WTG Options A and B)	1	-2	Option(s) considered as representative scenario and why WTG Option A forms the	3. Are there infrastructure layout options (permanent or temporary) which may	3. No, WTG Option B will not influence the sensitivity of assessed receptors. Receptor sensitivity to this impact is not influenced by array site design option choices. Therefore, WTG Option	
	Estimated number of WTG piling days	75	60	representative scenario as, more vessels to construct	introduce a material change in the sensitivity of the receptor(s) (greater or lesser)?	A forms the representative scenario basis for the assessment with WTG Option B conclusions being	
	Estimated number of OSS piling days	;	3	scenario with larger no of turbines.	4. Are there alternative installation methods which may introduce new impacts?	no different.	
	Estimated total WTG piling hours	262.5	210	Option(s) assessed and why Option A. Although Option B would result in a very slightly	 5. Are there alternative installation methods which may introduce a materially different magnitude of impact? 6. Are there alternative installation methods which may materially alter the sensitivity of the 	4. No, no variation in installation methods is proposed in relation to design option choice.	
	Estimated total OSS piling hours	1().5			5. No, no variation in installation methods is	
	Maximum number of simultaneous piling events		1	lower level of disturbance and displacement it would not		proposed in relation to design option choice. 6. No, no variation in installation methods is proposed in relation to design option choice.	
	Temporary infrastructure Installation vessels			introduce any new impacts and would not result in a difference to assessed impact magnitude.			
	Total construction vessels Peak vessels on site simultaneously	2,409 38	2,387 38				
	OECC (<mlws)< td=""><td></td><td></td><td>Representative scenario selection</td><td>Questions to demonstrate assessment has considered all scenarios</td><td>Response</td></mlws)<>			Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response	
	Permanent infrastructure (OECC ar	nd associated infi	rastructure)	No alternative scenarios for cons	sideration in assessment.		
	Total cable installation period for all three cables within the OECC - based upon 3 cables multiplied by vessel working rates (hours)	720 5					
	Maximum number of vessels active in association with cable installation activities within the OECC at any one time						
	Maximum length of cable to be installed in 24 hours (km)	2	25				



Impact	Relevant project details			Rationale for representative scenario(s)			
	OECC (MLWS to MHWS)		lal cable t trenches)	Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response	
	Installation methods and effects			Impact pathways identified	Are there infrastructure layout options	1. No, only a single option.	
	Total piling duration for temporary cofferdam (weeks)		2	and parameters selection to quantify impact magnitude	introduce new impacts?	2. No, only a single option.	
	Duration of temporary cofferdam once constructed (weeks)		4	impact is described by parameters relating to the spatial extent of intertidal habitats within distances from construction activities at which birds would experience disturbance from visual and / or acoustic stimuli and the number of stimuli events which will occur. Option(s) considered as representative scenario and why	Note - this could be a new impact entirely or the introduction of an existing impact pathway to a new receptor.	3. No, only a single option.	
	Number of open cut cable duct trenches from cofferdam to the transition zone		3		Are there infrastructure layout options (permanent or temporary) which may	No, no variation in installation methods is proposed in relation to design option choice.	
	Maximum length of open cut cable duct trenches (m)	3	00		introduce a materially different magnitude of impact?	5. No, no variation in installation methods is proposed in relation to design option choice.	
	Depth of open cut cable duct trenches (m)		3		Are there infrastructure layout options (permanent or temporary) which may	No, no variation in installation methods is	
	Width of open cut cable duct trenches (m)		18		introduce a material change in the sensitivity of the receptor(s) (greater or lesser)?	proposed in relation to design option choice.	
	Width of seabed affected by installation (m)		40		6. Are there alternative installation methods which may materially alter the sensitivity of the relevant receptor(s) (greater or lesser).		
	Total seabed disturbed by open cut cable duct installation (m2)	36	,000				
	Total area of seabed in transition zone affected by cable laying support structures (m2)	6,	900				
	Maximum potential number of piling events	Total: <u>26 days,</u> of which:	Total: Up to <u>24 days,</u> of which:			е	
Changes in prey availability for ornithological receptors in	(Cofferdam: Two weeks) (Tensioner platforms: 9 days) (TJBs: 3 days) (Reception pits: May require up to 12 piling events) (Tensioner platforms: 9 days)	Two weeks) (Tensioner platforms: 9	pits: May require up to 12 piling				
			(TJBs: 3 days)				
	Array site	WTG Option A (75 x 250 m)	WTG Option B (60 x 276 m)	Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response	
	Permanent infrastructure (WTGs, C infrastructure)	SSs, IACs and a	associated			No, WTG Option B would not introduce any r impacts. Therefore, WTG Option A forms the	



Impact	Relevant project details			Rationale for representative so	cenario(s)		
intertidal habitats from construction phase activities.	Boulder clearance: Array site seabed clearance area (m²)	2,556,000 - 2,934,000	2,494,000 - 2,772,000	Impact pathways identified and parameters selection to	Are there infrastructure layout options (permanent or temporary) which may	representative scenario basis for the assessment with WTG Option B conclusions being no different.	
phase activities.	Sand wave clearance: Array site seabed clearance area (m²)	205,250 - 259,250	220,000 – 277,500	The magnitudes of impacts to prey species relates to the	introduce new impacts? Note - this could be a new impact entirely or the introduction of an existing impact pathway	No, WTG Option B would not give rise to a materially different magnitude for	
	IAC and interconnector cable installation: Total seabed disturbed (m²)	1,911,000 - 2,214,000	1,791,000 - 2,079,000	extent of seabed disturbance during installation activities of WTGs, OSSs, IACs and associated infrastructure 2. Are there infrastructure layout options offshore/Intertidal Impact 3 (Inspection of Species) than Option A. There forms the representative scent of the properties of Species of Speci	Offshore/Intertidal Impact 3 (Impacts upon prey species) than Option A. Therefore, WTG Option A forms the representative scenario basis for the assessment with WTG Option B conclusions being		
	WTGs and OSS anchoring operations total impact area (m²)	280,800	237,600	It should be noted that where boulder clearance overlaps	It should be noted that where boulder clearance overlaps with sand wave clearance, the boulder clearance footprint will be within the sand wave (permanent or temporary) which may introduce a materially different magnitude of impact? 3. No, WTG Op sensitivity of as sensitivity to this may introduce a materially different magnitude of impact?		
	IAC and interconnector cable anchoring operations total impact area (m²)	371,520	280,800	boulder clearance footprint will		3. No, WTG Option B will not influence the sensitivity of assessed receptors. Receptor sensitivity to this impact is not influenced by array site design option choices. Therefore, WTG Option	
	Maximum hours of piling per WTG / OSS monopile		3.5	Where a range is provided, the larger values are assessed against.	introduce a material change in the sensitivity of the receptor(s) (greater or lesser)?	A forms the representative scenario basis for the assessment with WTG Option B conclusions being no different.	
	Maximum number of monopiles WTG / OSS installed in 24 hours		2	Option(s) considered as	4. Are there alternative installation methods which may introduce new impacts? 4. No.	No, no variation in installation methods is	
	Estimated number of WTG piling days	75	60	representative scenario as this represents the greatest extent of seabed disturbance. Magnitude of impact? 6. Are there alternative installation methods which may materially alter the sensitivity of the relevant receptor(s) (greater or lesser). Option(s) assessed and why WTG option A is assessed. Although Option B would result in a very slightly lower level of seabed habitat disturbance it	why 5. Are there alternative installation methods which may introduce a materially different magnitude of impact? 5. No, no variation	5. No, no variation in installation methods is	
	Estimated number of OSS piling days		3		6. Are there alternative installation methods which may materially alter the sensitivity of the relevant receptor(s) (greater or lesser). 6. Are there alternative installation methods which may materially alter the sensitivity of the relevant receptor(s) (greater or lesser). 6. No, no variation in installation proposed in relation to design of the proposed in relation t	ative installation methods Solution Choice Choice Choice	
	Estimated total WTG piling hours	262.5	210				
	Estimated total OSS piling hours	1	0.5				
	Maximum number of simultaneous piling events		1	does not introduce any new impacts and does not result in difference to assessed impact		not result in	
	Monopile seabed area per WTG (m²)		64	magnitudes.			
	Area of scour protection per location (including monopile footprint) (m²)	3,	640				
	Total WTG monopile seabed area take (with scour protection) across the array site (m²)	273,000	218,400				
	Seabed area covered by OSS bases with scour protection (m²)	10	,920				
	Interconnector and inter-array cabling total area of seabed covered by cable protection (m²)	208	3,600				



Impact	Relevant project details			Rationale for representative se	Rationale for representative scenario(s)			
	Volume of scour protection per location (m³)	5,	,365					
	Temporary infrastructure (Installation	on vessels)						
	JUV operations total impact area (m²)	240,000	180,000					
	Maximum total extent of seabed habitat disturbed within array site during construction (Permanent and temporary infrastructure) (m²)	6,299,570	5,826,900					
	OECC (<mlws)< td=""><td></td><td></td><td></td><td></td><td></td></mlws)<>							
	Permanent infrastructure (OECC ar	nd associated in	frastructure)	No alternative scenarios for cons	sideration in assessment.			
	Clearance corridor width per export cable (m)		20	Where a range is provided for relevant project details, the larger values are considered in assessment, though it is noted that lower end of the range would not result in a material change to impact magnitude. For example, the spatial extent of boulder clearance within the OECC is assessed as the highest stated area (2,616,000 m²) it is considered that if assessment was undertaken in relation to the lowest stated area (2,220,000 m²) there would be no different assessed impact magnitude.				
	Total length of export cables for boulder clearance (km)	1	132					
	Boulder clearance: OECC seabed clearance area (m²)	2,220,000	- 2,616,000					
	Sandwave clearance corridor width per cable (m)		50					
	Length of cables affected by sandwave clearance (m)	3,	971					
	Sand wave clearance: OECC seabed clearance area (m²)	198	8,550					
	Offshore export cable installation: Total seabed disturbed (m²)	1,890,000	- 2,187,000					
	Offshore export cable anchoring operations total impact area (m²)	630	0,720					
	Maximum total extent of seabed habitat disturbed within OECC during construction (m²)	5,63	32,270					
	Seabed area covered by OECC and associated infrastructure (m²)	109	5,000					
	Offshore export cables – intertidal areas (MLWS to MHWS)		dal cable ut trenches)	Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response		
	Installation methods and effects			Impact pathways identified				
	Duration of temporary cofferdam once constructed (weeks)	4		and parameters selection to quantify impact magnitude Alteration of habitat within	(permanent or temporary) which may introduce new impacts? Note - this could be a new impact entirely or	2. No, only a single option.		
	Total area disturbed by cofferdam (m²)	6,	,100	intertidal areas.	the introduction of an existing impact pathway to a new receptor.	3. No, only a single option.		



Impact	Relevant project details			Rationale for representative so	enario(s)	
	Total area disturbed by intertidal cable duct installation (m²) Total area in transition zone affected by support structures		900	parameters relating to the volume of intertidal habitat	Are there infrastructure layout options (permanent or temporary) which may introduce a materially different magnitude of impact?	4. No, no variation in installation methods is proposed in relation to design option choice. 5. No, no variation in installation methods is
	(m²) Total area in transition zone affected by installation of cables using either open cut trenching or a shallow water trenching tool (m²)	108	,000	Option(s) considered as representative scenario and why WTG Option A forms the representative scenario as this	3. Are there infrastructure layout options (permanent or temporary) which may introduce a material change in the sensitivity of the receptor(s) (greater or lesser)?	proposed in relation to design option choice. 6. No, no variation in installation methods is proposed in relation to design option choice.
Impact 4: Accidental pollution in offshore and intertidal habitats during construction phase activities.	Total area of disturbed intertidal habitat for landfall (intertidal OECC installation) construction activities (m²)	coolants required Coolants and ba	tteries.	representative scenario as this represents the greatest extent of impacts upon prey species (I.e. greatest extent of intertidal habitat alteration during construction) Option(s) assessed and why Option A. Although Option B would result in a marginally lower level of impacts upon prey species it would not introduce any new impacts and would not result in a difference to assessed impact magnitude.	4. Are there alternative installation methods which may introduce new impacts? 5. Are there alternative installation methods which may introduce a materially different magnitude of impact? 6. Are there alternative installation methods which may materially alter the sensitivity of the relevant receptor(s) (greater or lesser).	
Impact 5: Accidental	Maximum total construction vessels	75 (2,409 round trips)	75 (2,387 round trips)	Impact pathways identified and parameters selection to	Are there infrastructure layout options (permanent or temporary) which may	No, WTG Option B would not introduce any ne impacts. Therefore, WTG Option A forms the
introduction or spread of invasive species in offshore and intertidal habitats during construction phase activities.	Maximum total construction vessels	17 (118 round trips)	17 (118 round trips)	The magnitudes of impacts to INNS relates to the number of vessel movements during installation activities of WTGs, OSSs, IACs and associated infrastructure. Option(s) considered as representative scenario and why WTG Option A forms the represents the greatest number	introduce new impacts? Note - this could be a new impact entirely or the introduction of an existing impact pathway to a new receptor. 2. Are there infrastructure layout options (permanent or temporary) which may introduce a materially different magnitude of impact? 3. Are there infrastructure layout options (permanent or temporary) which may introduce a material change in the sensitivity	representative scenario basis for the assessment with WTG Option B conclusions being no different a. No, WTG Option B would not give rise to a materially different magnitude for Offshore/Intertidal Impact 3 (introduction of INNS) than Option A. Therefore, WTG Option A forms the representative scenario basis for the assessment with WTG Option B conclusions being no different a. No, WTG Option B will not influence the sensitivity of assessed receptors. Receptor sensitivity to this impact is not influenced by array



Impact	Relevant project details	Rationale for representative scenario(s)				
		Option(s) assessed and why WTG option A is assessed. Although Option B would result in a very slightly lower level of INNS risk it does not introduce any new impacts and does not result in difference to assessed impact magnitudes.	4. Are there alternative installation methods which may introduce new impacts? 5. Are there alternative installation methods which may introduce a materially different magnitude of impact? 6. Are there alternative installation methods which may materially alter the sensitivity of the relevant receptor(s) (greater or lesser).	assessment with WTG Option B conclusions being no different. 4. No, no variation in installation methods is proposed in relation to design option choice. 5. No, no variation in installation methods is proposed in relation to design option choice. 6. No, no variation in installation methods is proposed in relation to design option choice.		

Table 2 Representative scenario assessment – Operation and maintenance phase impacts

Impact	Relevant project details			Rationale for representative so	enario(s)	
Impact 1: Direct effects on offshore and intertidal habitats during the operational phase.	Array site	WTG Option A	WTG Option B	Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response
	Permanent infrastructure (WTGs, 0 infrastructure)	DSSs IACs and a	ssociated	Impact pathways identified and parameters selection to quantify impact magnitude Non-foraging related habitat	Are there infrastructure layout options which may introduce new impacts? Note - this could be a new impact entirely or the introduction of an existing impact pathway.	No, WTG Option A would not introduce any new impacts. Therefore, WTG Option B forms the representative scenario basis for the assessment with WTG Option A conclusions
	Diameter of WTG towers at LAT (m)	8	9	use equates to use of sea surface. Parameters relating to spatial and temporal occupation of Array Site during construction described. [Seabed habitat effects	to a new receptor. being no different.	
	Number of WTGs	75	60		2. Are there infrastructure layout options which may introduce a materially different magnitude	materially different magnitude for Offshore/Intertidal Impact 1 (Direct effects on habitat) than Option B. Therefore, WTG Option B forms the representative scenario basis for the
	OSS monopile diameter at mudline (m)	9	9.5		of impact (greater or lesser)?	
	Number of OSSs		3	considered in relation to effects on prey species.]	3. Are there infrastructure layout options which may introduce a material change in the sensitivity of the receptor(s) (greater or lesser)?	
	Sea surface area covered by WTG bases (m²)	3,770 (assuming 8 m diameter towers, and therefore 50.27 m² per tower)	3,817 (assuming 9 m diameter towers, and therefore 63.62 m ² per tower)	Option(s) considered as representative scenario and why WTG Option B forms the representative scenario as this		



Impact	Relevant project details		Rationale for representative	scenario(s)	
	Sea surface area covered by OSS bases (m²)	No variation in permanent infrastructure in relation to design option choice; 70.86 per OSS tower, three OSS bases.			for the assessment with WTG Option A conclusions being no different.
	O&M Vessels	I	No alternative scenarios for co	nsideration in assessment	
	Maximum number of O&M vessels within Array Site at one time	No variation in temporary infrastructure in relation to design option choice			
	OECC (<mlws)< th=""><th colspan="2">OECC (<mlws)< th=""><th>Questions to demonstrate assessment has considered all scenarios</th><th>Response</th></mlws)<></th></mlws)<>	OECC (<mlws)< th=""><th>Questions to demonstrate assessment has considered all scenarios</th><th>Response</th></mlws)<>		Questions to demonstrate assessment has considered all scenarios	Response
	Permanent infrastructure (OECC a	nd associated infrastructure)	No alternative scenarios for co	nsideration in assessment	
	Sea surface area covered by OECC and associated infrastructure (m²)	No variation in permanent infrastructure in relation to design option choice No OECC or associated permanent infrastructure footprint at sea surface			
	O&M Vessels				
	Maximum number of O&M vessels within OECC at one time	No variation in temporary infrastructure in relation to design option choice			
	OECC (MLWS to MHWS)	Intertidal cable laying Opti (Open cut trenches)	on A Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response
	Permanent infrastructure (OECC a	nd associated infrastructure)	No alternative scenarios for co	nsideration in assessment	
	Volume of intertidal habitat impacted	No variation in permanent infrastructure in relation to intertidal cable laying			
Impact 2:	Array site	WTG Option WTG Opt	on B Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response



Impact	Relevant project details		Rationale for representative scenario(s)				
ornithological receptors in offshore and intertidal habitats during operational phase activities. For Array Site includes barrier effects, where flying individuals may experience increased energetic costs associated with additional travel distances from transiting around the WTG array rather through.	Permanent infrastructure (WTGs, (infrastructure) Area of array and surrounding buffer. Number of WTGs Number of OSSs	No variation in installation methods in relation to design option choice Array site + 2 km buffer = 225 km² Array site + 4 km buffer = 359 km² 75 60	Impact pathways identified and parameters selection to quantify impact magnitude Extent of displacement relates to area of array site and also number and duration of vessel movements during operation phase. Option(s) considered as representative scenario and why WTG Option A forms the representative scenario due to larger no of turbines. Option(s) assessed and why Option A. Although Option B would result in a very slightly lower level of disturbance and displacement it would not introduce any new impacts and would not result in a difference to assessed impact magnitude.	1. Are there infrastructure layout options (permanent or temporary) which may introduce new impacts? Note - this could be a new impact entirely or the introduction of an existing impact pathway to a new receptor. 2. Are there infrastructure layout options (permanent or temporary) which may introduce a materially different magnitude of impact? 3. Are there infrastructure layout options (permanent or temporary) which may introduce a material change in the sensitivity of the receptor(s) (greater or lesser)? 4. Are there alternative installation methods which may introduce new impacts? 5. Are there alternative installation methods which may introduce a materially different magnitude of impact? 6. Are there alternative installation methods which may materially alter the sensitivity of the relevant receptor(s) (greater or lesser).	 No, WTG Option B would not introduce any new impacts. Therefore, WTG Option A forms the representative scenario basis for the assessment with WTG Option B conclusions being no different. No, WTG Option B would not give rise to a materially different magnitude for Offshore/Intertidal Impact 2 (Disturbance and Displacement) than Option A. Therefore, WTG Option A forms the representative scenario basis for the assessment with WTG Option B conclusions being no different. No, WTG Option B will not influence the sensitivity of assessed receptors. Receptor sensitivity to this impact is not influenced by array site design option choices. Therefore, WTG Option A forms the representative scenario basis for the assessment with WTG Option B conclusions being no different. No, no variation in installation methods is proposed in relation to design option choice. No, no variation in installation methods is proposed in relation to design option choice. No, no variation in installation methods is proposed in relation to design option choice. 		
	O&M Vessels		No alternative scenarios for consideration in assessment				
	Number of operation and maintenance vessels and vessel movements within Array Site	1, 209					
	OECC (<mlws)< td=""><td>Representative scenario selection</td><td>Questions to demonstrate assessment has considered all scenarios</td><td>Response</td></mlws)<>		Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response		
	Permanent infrastructure (OECC and associated infrastructure)		No alternative scenarios for consideration in assessment				
	Sea surface area covered by OECC and associated infrastructure (m²)	n/a					
	O&M Vessels						
	Number of operation and maintenance vessels and vessel movements within OECC	1,209					
	OECC (MLWS to MHWS)	Intertidal cable (Open cut trenches)	Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response		



Impact	Relevant project details	ant project details		Rationale for representative scenario(s)			
	Permanent infrastructure (OECC and associated infrastructure)		No alternative scenarios for consideration in assessment				
	Spatial extent of intertidal habitat impacted	No variation in permanent infrastructure in relation to intertidal cable laying option choice					
Impact 3: Changes in prey	Array site	WTG Option A	WTG Option B	Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response	
availability for ornithological receptors in	Permanent infrastructure WTGs, OSSs IACs and associated	infrastructure		Impact pathways identified and parameters selection to	Are there infrastructure layout options which may introduce new impacts?	No, WTG Option B would not introduce any new impacts. Therefore, WTG Option A forms the representative scenario basis for the	
offshore and intertidal habitats during the	Seabed area covered by WTG bases with scour protection (m²)	273,000	218,400	<u>quantify impact magnitude</u> The magnitudes of impacts to prey species relates to the	Note - this could be a new impact entirely or the introduction of an existing impact pathway to a new receptor.	the representative scenario basis for the assessment with WTG Option B conclusions being no different.	
operational phase.	Seabed area covered by OSS bases with scour protection (m²)	methods in re	in installation lation to design pice. 10,920	extent of seabed occupied by infrastructure during the operational period of the project.	2. Are there infrastructure layout options which may introduce a materially different magnitude of impact (greater or lesser)?	2. No, WTG Option B would not give rise to a materially different magnitude for Offshore/Intertidal Impact 1 (Direct effects on habitat) than Option A. Therefore, WTG Option A	
				Option(s) considered as representative scenario and why WTG Option A forms the	3. Are there infrastructure layout options which may introduce a material change in the sensitivity of the receptor(s) (greater or lesser)?	forms the representative scenario basis for the assessment with WTG Option B conclusions being no different.	
	Interconnector and inter-array cabling total area of seabed covered by cable protection (m²)	208	3,600	representative scenario as this represents the greatest extent of seabed occupied by infrastructure during the operational period of the project and hence may result in the		3. No, WTG Option B will not influence the sensitivity of assessed receptors. Receptor sensitivity to this impact is not influenced by array site design option choices. Therefore, WTG Option A forms the representative scenario basis for the assessment with WTG Option B	
	Total footprint of infrastructure (km²)	0.60	0.49	largest degree of impact upon prey species.		conclusions being no different.	
				Option(s) assessed and why Option A. Although Option B would result in a very slightly lower level of direct effects on habitat it would not introduce any new impacts and would not result in a difference to assessed impact magnitude.			
	OECC (<mlws)< td=""><td>Representative scenario selection</td><td>Questions to demonstrate assessment has considered all scenarios</td><td>Response</td></mlws)<>			Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response	
	Permanent infrastructure (OECC ar	nd associated inf	rastructure)	No alternative scenarios for consideration in assessment			
	Seabed area covered by OECC and associated infrastructure (m²)	105,000 (0.11 km²)					



Impact	Relevant project details			Rationale for representative scenario(s)				
	OECC – intertidal areas (MLWS to MHWS)		lal cable t trenches)	Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response		
	Permanent infrastructure (OECC a	N/A, as buried infrastructure is passive during O&M phase		No alternative scenarios for consideration in assessment				
	Intertidal habitat area covered by OECC and associated infrastructure (m²)							
Impact 4 - Accidental pollution in offshore and intertidal habitats during operational phase activities.	No alternative scenarios for consid	eration in assess	ment					
Impact 6 - For Array Site only. Collision with	Array site	WTG Option A	WTG Option B	Representative scenario selection	Questions to demonstrate assessment has considered all scenarios	Response		
operational WTGs.	Permanent infrastructure WTGs			Impact pathways identified and parameters selection to	Are there infrastructure layout options which may introduce new impacts?	No, WTG Option B would not introduce any new impacts in comparison to Option A.		
	Number of turbines	75	60	 quantify impact magnitude Magnitude of collision impacts relate to turbine number, size, spatial configuration and operational performance parameters. 	Note - this could be a new impact entirely or the introduction of an existing impact pathway to a new receptor. 2. Are there infrastructure layout options which may introduce a materially different magnitude of impact (greater or lesser)? 3. Are there infrastructure layout options which may introduce a material change in the sensitivity of the receptor(s) (greater or lesser)?	 2. Yes, WTG Options may give rise to a materially different collision impact magnitudes. Therefore, WTG Options A and B are assessed in relation to operation and maintenance phase collision impacts. 3. No, Receptor sensitivities in relation to WTG Options A and B are the same. 		
	Latitude (degrees)	5	3.1					
	Number of blades		3	Option(s) considered as				
	Rotor radius (m)	125	138	representative scenario and why WTG Option A forms the				
	Air gap (m above MSL)	;	36	representative scenario as, collision risk modelling outputs for this number and size of				
	Tidal offset (m)	1.72		turbines are greater than for those for Option B.				
	Blade width (m)	7	7.9	Option(s) assessed and why Both WTG options are assessed. Option B would result in a very slightly lower level of collision mortality than Option A. For herring gull, during the breeding season, collision impacts are assessed to be low in for Option A and negligible/low for Option B. Because of this slight difference in impact magnitudes both WTG options are assessed. For all other species,				
	Mean rotation speed (rpm) (±SD)	6.804 (1.246)	5.591 (1.402)					
	Pitch (degrees) (±SD)	6.738 (5.044)	7.248 (6.923)					



Impact	Relevant project details	Rationale for representative scenario(s)		
		WTG Options A and B do not give rise to materially different collision impact magnitudes and as such collision mortality outputs relating to Option A are refered in relation to impact magnitude conclusions.		



4 Limit of Deviation Assessment

- 14. As described in **Section 2** of this document, locational flexibility of permanent and temporary infrastructure is described as a LoD from a specific point or alignment.
- 15. The project components for which a LoD has been defined are presented in **Table 3**. These are further described in EIAR **Chapter 4 Project Description** and have been presented on the planning drawings that accompany the planning application.

Table 3 Defined limits of deviation

Project component	LoD		
Offshore project components			
WTGs	100 m from the centre point of each WTG location		
WTG monopile locations	Same as WTGs.		
WTG monopile scour protection	Same as WTGs.		
OSSs	100 m from the centre point of each OSS location		
OSS monopile locations	Same as OSSs.		
OSS monopile scour protection	Same as OSSs.		
IACs and interconnector cables	100 m either side of the preferred alignment of each IAC and interconnector cable		
	200 m from the centre point of each WTG location		
Offshore export cables	250 m either side of the preferred alignment within the array site.		
	The offshore export cable corridor (OECC) outside of the array site.		
Landfall			
Transition Joint Bays (TJBs)	0.5 m either side (i.e. east / west) of the preferred TJB location		
Landfall cable ducts (and associated offshore export cables within the ducts)	Defined LoD boundary with 30 – 55 m horizontal width		
Intertidal cable ducts (and associated offshore export cables within the ducts)	The OECC		
Intertidal offshore export cables (non ducted sections)	The OECC		
Onshore substation			
Location of onshore substation revetment perimeter structure	Defined LoD boundary		

16. For the purposes of the EIAR, the main chapter for ornithology assesses the specific preferred location for permanent infrastructure. However, this document provides further analysis to determine if the

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- proposed LoD for permanent infrastructure may give rise to any new or materially different effects, taking into consideration the potential impact of the proposed LoD on the magnitude of the impact.
- 17. For ornithology this analysis for construction and O&M phase impacts is presented in **Table 1** and **Table 2**, respectively. Where the potential for a LoD to cause a new or materially different effect is identified, then this is noted the tables below and is considered in full within the main chapter.



Table 4 Limit of deviation assessment - construction phase impacts

Impact	Relevant project element	Limit of deviation	Questions to demonstrate assessment has considered all scenarios	Response
Offshore and intertidal – Construction: Impact 1 – Direct effects on habitat	WTGs, 100 m from the centre poor of each WTG location		1. Does the proposed LoD (locational flexibility) introduce new impacts? (i.e. the introduction of an existing impact pathway to a new receptor).	 No, the implementation of the LoD does not introduce any new impact receptor pathways that have not already been considered as part of the assessment. No, the magnitude of direct effects on habitat within offshore or
		100 m from the centre point of each OSS location. Cable laying vessel movements will occur around cable routes which will be within the defined LoD boundary within the array site.	2. Does the proposed LoD (locational flexibility) introduce a	intertidal areas will not be materially affected by WTG micrositing choices or cable location selections within the OECC.
	OECC – offshore areas (<mlw< td=""><td>S)</td><td></td><td></td></mlw<>	S)		
	Offshore export cables (including cable protection)	Cable laying vessel movements will occur within the OECC outside of the array site.		
	OECC – intertidal areas (MLWS to MHWS) (and TJB for noise modelling)			
	TJBs	0.5 m either side (i.e. east / west) of the preferred TJB location		
	Landfall cable ducts (and associated offshore export cables within the ducts)	Defined LoD boundary		
	Intertidal cable ducts (and associated offshore export cables within the ducts)	The OECC		
	Intertidal offshore export cables (non ducted sections)	The OECC		
Offshore and intertidal –	Array site		 No, the implementation of the LoD does not intro impact receptor pathways that have not already been as part of the assessment. No, the implementation of the LoD does not intro impact receptor pathways that have not already been as part of the assessment. No, the magnitude of disturbance and displacementation. 	Array Site and OECC (<mlws)< td=""></mlws)<>
Construction: Impact 2 – Disturbance and displacement	WTGs, OSSs	100 m from the centre point of each WTG location 100 m from the centre point		No, the implementation of the LoD does not introduce any new impact receptor pathways that have not already been considered
		of each OSS location.		·
		Cable laying vessel movements will occur within the defined LoD boundary		2. No, in magnitude of distribution and displace
	within the array site.			OECC (MLWS to MHWS)
	Offshore export cables – offsho	re areas (<mlws)< td=""><td></td><td>1. No, the implementation of the LoD does not introduce any new impact receptor pathways that have not already been considered</td></mlws)<>		1. No, the implementation of the LoD does not introduce any new impact receptor pathways that have not already been considered
	Offshore export cables (including cable protection)	Cable laying vessel movements will occur within the OECC outside of the array site.		as part of the assessment. 2. Yes, the magnitude of disturbance and displacement effects within intertidal areas may be materially affected by cable



Impact	Relevant project element	Limit of deviation	Questions to demonstrate assessment has considered all scenarios	Response
	Offshore export cables – intertion (and TJB for noise modelling)	dal areas (MLWS to MHWS)		location selections within the OECC. On this basis two cable alignment scenarios have been assessed in relation to potential disturbance and displacement impacts: a preferred alignment scenario (with export cables centrally located within the OECC and up to approximately 250 m apart), and an alternative scenario (with maximal spread between export cables within the
	TJBs	0.5 m either side (i.e. east / west) of the preferred TJB location		
	Landfall cable ducts (and associated offshore export cables within the ducts)	Defined LoD boundary		OECC, up to 1.6 km apart) adopted for the purposes of modelling which is referred to as the alternative alignment for modelling (AAM).
	Intertidal cable ducts (and associated offshore export cables within the ducts)	The OECC		
	Intertidal offshore export cables (non ducted sections)	The OECC		
Offshore and intertidal –	Array site		1. Does the proposed LoD (locational flexibility) introduce new	1. No, the implementation of the LoD does not introduce any new
Construction: Impact 3 – Changes in prey availability	WTGs, OSSs	100 m from the centre point of each WTG location 100 m from the centre point of each OSS location. Cable laying vessel movements will occur within the defined LoD boundary within the array site.	2. Does the proposed LoD (locational flexibility) introduce a materially greater magnitude of impact?	impact receptor pathways that have not already been considered as part of the assessment. 2. No, the magnitude of direct effects on habitat within offshore or intertidal areas will not be materially affected by LoD.
	Offshore export cables – offshore areas (<mlws)< td=""><td></td><td></td></mlws)<>			
	Offshore export cables (including cable protection)	Cable laying vessel movements will occur within the OECC outside of the array site.		
	Offshore export cables – intertidal areas (MLWS to MHWS)			
	Intertidal cable ducts (and associated offshore export cables within the ducts)	The OECC		
	Intertidal offshore export cables (non ducted sections)	The OECC		

Table 5 Limit of deviation assessment - operational phase impacts

Impact	Relevant project element	Limit of deviation	Questions to demonstrate assessment has considered all scenarios	Response
Offshore and intertidal –	Array Site		1. Does the proposed LoD (locational flexibility) introduce new	1. No, the implementation of the LoD does not introduce any new
Operation and	WTGs, OSSs	100 m from the centre point of each WTG location	impacts? (i.e. the introduction of an existing impact pathway to a new receptor).	impact receptor pathways that have not already been considered as part of the assessment.



Impact	Relevant project element	Limit of deviation	Questions to demonstrate assessment has considered all scenarios	Response
maintenance: Impact 1 – Direct effects on habitat		100 m from the centre point of each OSS location.	Does the proposed LoD (locational flexibility) introduce a	No, the magnitude of direct effects on habitat within offshore of intertidal areas will not be materially affected by LoD.
	Offshore export cables – offshore areas (<mlws)< td=""><td rowspan="2">materially different magnitude of impact?</td><td></td></mlws)<>		materially different magnitude of impact?	
	Offshore export cables The OECC (including cable protection)			
	Offshore export cables – inter MHWS)	tidal areas (MLWS to		
	Intertidal cable ducts (and associated offshore export cables within the ducts)	The OECC		
	Intertidal offshore export cables (non ducted sections)	The OECC		
Offshore and intertidal –	Array Site		1. Does the proposed LoD (locational flexibility) introduce new	1. No, the implementation of the LoD does not introduce any new
Operation and maintenance: Impact 2 – Disturbance and	WTGs, OSSs	100 m from the centre point of each WTG location	a new receptor). 2. Does the proposed LoD (locational flexibility) introduce a	impact receptor pathways that have not already been considered as part of the assessment.2. No, the magnitude of disturbance and displacement effects within offshore or intertidal areas will not be materially affected b LoD.
displacement		100 m from the centre point of each OSS location.		
	Offshore export cables – offshore areas (<mlws)< td=""><td>materially different magnitude of impact.</td><td></td></mlws)<>		materially different magnitude of impact.	
	Offshore export cables (including cable protection)	The OECC		
	Offshore export cables – intertidal areas (MLWS to MHWS)			
	Intertidal cable ducts (and associated offshore export cables within the ducts)	The OECC		
	Intertidal offshore export cables (non ducted sections)	The OECC		
Offshore and intertidal –	Array Site		1. Does the proposed LoD (locational flexibility) introduce new	 No, the implementation of the LoD does not introduce any nerimpact receptor pathways that have not already been considere as part of the assessment. No, the magnitude of direct effects on habitat within offshore intertidal areas will not be materially affected by LoD.
Operation and maintenance: Impact 3 – Changes in prey availability	WTGs, OSSs	100 m from the centre point of each WTG location	impacts? (i.e. the introduction of an existing impact pathway to a new receptor).	
onangoo in proy availability		100 m from the centre point of each OSS location.	Does the proposed LoD (locational flexibility) introduce a materially different magnitude of impact?	
	Offshore export cables – offshore areas (<mlws)< td=""><td>materially different magnitude of impact:</td><td></td></mlws)<>		materially different magnitude of impact:	
	Offshore export cables The OECC (including cable protection)			
	Offshore export cables – intertidal areas (MLWS to MHWS)			
	Landfall cable ducts (and associated offshore export cables within the ducts)	Defined LoD boundary		



Impact	Relevant project element	Limit of deviation	Questions to demonstrate assessment has considered all scenarios	Response
	Intertidal cable ducts (and associated offshore export cables within the ducts)	The OECC		
	Intertidal offshore export cables (non ducted sections)	The OECC		
Offshore – Operation and	Array site		1. Does the proposed LoD (locational flexibility) introduce new	1. No, the implementation of the LoD does not introduce any new
maintenance: Impact 6 – Collision	WTGs	100 m from the centre point of each WTG location	impacts? (i.e. the introduction of an existing impact pathway to a new receptor).	impact receptor pathways that have not already been considered as part of the assessment.
			Does the proposed LoD (locational flexibility) introduce a materially different magnitude of impact?	No, the magnitude of direct effects on habitat within offshore o intertidal areas will not be materially affected by LoD.