



Environmental Impact Assessment Report

Volume 4

Appendix 7.2 Representative Scenario and Limits of Deviation Assessment





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APPENDIX 7.2 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 Layout 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 a limit of deviation (LoD) from a specific point of 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

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methods and techniques to be employed will not be made until the appointment of the primary contractors closer to the time of construction.

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 identify and 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 marine water quality this analysis for construction and operation and maintenance (O&M) phase impacts is presented in **Table 1**, **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			Representative scenario(s) and notes / assumptions	Rationale for representa	ative scen
Impact 1: Direct temporary disturbance resulting in	Array site (including WTGs, inter-array cables (IACs), interconnectors and offshore substation structures (OSSs)) and offshore export cable corridor (OECC) (including transition zone)	WTG Option A	WTG Option B		Questions to demonstrate assessment has considered all scenarios	Respons
temporary	Installation methods and effects			WTG Option A forms the	1. Are there	1. No, W
SSC	Boulder clearance: Array site seabed clearance area (m ²)	2,556,000 - 2,934,000	2,494,000 - 2,772,000	representative scenario as this represents the greatest level of direct temporary disturbance	infrastructure layout options (permanent or temporary) which may	impact r been co
	Sand wave clearance: Array Site volume of material disturbed by sand wave clearance (m ³)	615,750 – 777,750	660,000 - 832,500	resulting in temporary increase in SSC, and therefore WTG Option A forms the basis of the assessment.	introduce new impacts? Note - this could be a new impact entirely or	2. No, th differing
	IAC and interconnector cable installation: Total volume of sediment disturbed (m ³)	2,866,500 – 3,321,000	1,786,500 – 3,118,500	 WIG Option B, or any other scenario resulting in a lower level of temporary increases in SSC would not introduce new or different 	the introduction of an existing impact pathway to a new receptor.	3. No, in sensitivi
	Boulder clearance: OECC seabed clearance area (m ²)	2,220,000	- 2,616,000	impacts and would not result in an effect of materially different significance	2. Are there infrastructure layout options (permanent or temporary) which may introduce a materially	4. No, th infrastru
	OECC volume of material disturbed by sand wave clearance (m ³)	471,450 -	- 595,650	Greatest increases in SSC are		and cab
	Offshore export cable installation: total volume of sediment disturbed (m ³)	471,450 – 595,650		anticipated to be caused by dredge disposal operations and cable	different magnitude of impact?	5. No, the second secon
	JUV operations total impact area (m ²)	240,000	180,000	sediment plume modelling, as presented in Appendix 6.3 Modelling Report.	3. Are there infrastructure layout options (permanent or temporary) which may introduce a material change in the sensitivity	material
	WTGs and OSS anchoring operations total impact volume (m ³)	1,404,000	1,134,000			6. No, t
	IAC and interconnector cable anchoring operations total impact volume (m ³)	1,857,6000	1,404,000			cables a material
	Total volume of WTG monopile drill arisings (m ³)	24,516	23,220		of the receptor(s) (greater or lesser)?	receptor
	Offshore export cable anchoring operations total impact volume (m ³)	3,15	3,600		4. Are there alternative	
	Landfall				which may introduce	
	Installation methods and effects				new impacts?	
	Total seabed disturbed by cofferdam (m ²)	6,1	100		5. Are there alternative installation methods	
	Total seabed disturbed by intertidal cable duct installation (m ³)	72,	000		which may introduce a materially different	
	Total area of seabed in transition zone affected by support structures (m ²)	6,9	900		magnitude of impact?	
	Total volume of seabed in transition zone affected by installation of cables using either open cut trenching or a shallow water trenching tool (m ³)	216,000			o. Are there alternative installation methods which may materially alter the sensitivity of	
				Page 7 of 17		

nario(s)

nse

WTG Option B would not introduce any new receptor pathways that have not already onsidered as part of the assessment.

the two layouts are highly unlikely to have g magnitudes for Impact 1.

infrastructure layout will not influence the vity of the receptor that is being assessed.

the installation methods for the permanent ucture, including installation of foundations bles do not introduce new impacts.

the installation methods for the permanent ucture, including installation of foundations, and onshore substations do not introduce ally different magnitude of impact.

the installation methods for the permanent ucture, including installation of foundations, and the onshore substation do not ally alter the sensitivity of the relevant ors.



Impact	Relevant project details			Representative scenario(s) and	Rationale for representa	ative sce
			notes / assumptions			
	Onshore substation				the relevant receptor(s) (areater or lesser).	
	Onshore substation: length of combi-wall below the High Water Mark (HWM) (requiring marine piling) (m)		150			
	Onshore substation: Total length of new revetments (m)		150			
Impact 2: Direct disturbance resulting in resuspension	Array site (including WTGs, inter-array cables (IACs), interconnectors and offshore substation structures (OSSs)) and offshore export cable corridor (OECC)	WTG Option A	WTG Option B		Questions to demonstrate assessment has considered all scenarios	Respor
of contaminated sediments	Representative scenario parameters are the same as those above for Impact 1 above. Coastal processes modelling indicates that spring tides, which generate the greatest horizontal displacement, can extend along the tidal axis for a maximum of up to 10 km. Sediment plume modelling suggests that the greatest direction and distance of dispersion of disturbed material was 9 - 10 km to the east, although one scenario showed dispersion to the south east reaching 6 - 7 km and to the west reaching 3-4 km.	As above	As above	Direct disturbance resulting in resuspension of contaminated sediments relates to seabed preparation for foundations and cables, jack up and anchoring operations, and cable installation. Remobilisation of contaminated sediments occur as a result of temporary disturbance to the seabed and as such the construction activities relating to these impacts are the same as those of Impact 1. It should be noted that where boulder clearance overlaps with sand wave clearance, the boulder clearance footprint will be within the sand wave clearance footprint. Offshore, WTG Option A forms the representative scenario as this represents the greatest level of temporary habitat disturbance, and therefore Option A forms the presentational basis of the assessment for Impact 2: remobilisation of contaminated sediments in this chapter. Option B would result in a lower level of disturbance and would not introduce new impacts, or an impact of materially different magnitude.		 No, V impact been co No, t differing No, t No, t No, t infrastr and cal No, infrastr and cal No, infrastr and cal No, infrastr and cal

enario(s)

nse

WTG Option B would not introduce any new receptor pathways that have not already considered as part of the assessment.

the two layouts are highly unlikely to have ng magnitudes for Impact 2.

Option B will not influence the sensitivity of eptor that is being assessed.

the installation methods for the permanent ructure, including installation of foundations bles do not introduce new impacts.

the installation methods for the permanent ructure, including installation of foundations bles do not introduce materially different rude of impact.

the installation methods for the permanent ructure, including installation of foundations bles do not materially alter the sensitivity of evant receptors.



Impact	Relevant project details		Representative scenario(s) and notes / assumptions	Rationale for representative scen	
Impact 3: Accidental pollution events	Total WTG Total construction vessels (round trips)	75 2,409	60 2,387	Accidental pollution events relate to the potential for accidental pollution such as oil and hydraulic fluids being introduced to the environment from vessels during construction activities. WTG Option A forms the representative scenario as this represents the number of vessels required, and the greatest number of locations that may require drilling, and therefore Option A forms the presentational basis of the assessment for Impact 3. Option B would result in a lower potential for accidental pollution events to occur and would not introduce new impacts, or an	1. No, N impact been co 2. It is h differing Further outlined CEMP, guidelir and tha minimis intertida forms th with op
	Number of WTG and OSS locations that may require drilling	12	10	impact of materially different magnitude.	 3. No, No, No, Sensitiv 4. No the installation introduction of the installation introduction of the installation introduction of the installation introduction of the installation of the in

Table 2 Representative scenario assessment - operational phase impacts

Impact	Relevant project details			Representative scenario(s) and notes / assumptions	Rationale for representative so	tative scenario(s)	
	Array site (including WTGs, OSSs and offshore export cables within the Array Site) and Offshore export cable corridor	WTG Option A	WTG Option B		Questions to demonstrate assessment has considered all scenarios	Response	
Impact 1: Direct temporary disturbance resulting in temporary increases in SSC	Array site (including WTGs, OSSs and offshore export cables within the array site) and offshore export cable corridor	N/A	N/A	Temporary habitat disturbance relates to maintenance activities such as cable repair, vessel jack-up operations and deployment of scour protection. These periodic maintenance activities will be required under both Option A and Option B.	 Are there infrastructure layout options (permanent or temporary) which may introduce new impacts? Are there infrastructure layout options (permanent or temporary) which may 	 No, impact does no O&M work considered No, impact does no O&M work considered No, sensitivity of re 	

nario(s)

WTG Option B would not introduce any new receptor pathways that have not already onsidered as part of the assessment.

highly unlikely that, the two layouts will have g magnitudes for Impact 3.

rmore, the primary project mitigation d in **Chapter 7 Section 7.9**, in the form of a , will ensure that vessels follow best practice nes for the prevention of pollution at sea at analogous protocols are adhered to, to se such risk associated with works in al or onshore habitats. Therefore, option A the presentational basis for the assessment otion B conclusions being no different.

WTG Option B will not influence the vity of the receptor that is being assessed.

he permanent infrastructure, including tion of foundations and cables do not ce new impacts.

the installation methods for the permanent ucture, including installation of foundations bles do not introduce materially different ude of impact.

the installation methods for the permanent ucture, including installation of foundations bles do not materially alter the sensitivity of evant receptors.

ot vary between layout options. Potential for d to be equal.

ot vary between layout options. Potential for d to be equal.

ceptor is not affected by layout option.



Impact	Relevant project details			Representative scenario(s) and notes / assumptionsRationale for representative scenario(s)		
	Array site (including WTGs, OSSs and offshore export cables within the Array Site) and Offshore export cable corridor	WTG Option A	WTG Option B		Questions to demonstrate assessment has considered all scenarios	Response
Impact 2: Direct disturbance resulting in resuspensi on of contaminat ed sediments	Resuspension of contaminants sediments is associated with the disturbance of seabed sediments are increases in SSC. Temporary increases in SSC during operation and maintenance of the CWP Project are anticipated to occur in the event one of the following is required: • Cable reburial, following movement of seabed sediments resulting in the exposure of the buried cable; • Cable repair, requiring exposure, recovery and reburial of cables; and • Use of JUVs during WTG / OSS maintenance. It is anticipated that the same or similar methodology will be required as described for the construction phase, except over a greatly reduced area.	N/A	N/A	Direct disturbance resulting in resuspension of contaminated sediments relates to maintenance activities such as cable repair, vessel jack-up operations and deployment of scour protection. These periodic maintenance activities will be required under both Option A and Option B.	 introduce a materially greater 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 greater magnitude of impact? 6. Are there alternative installation methods which may materially alter the sensitivity of the relevant receptor(s) (greater or lesser). 	 4. No, impact pathway 5. No. Magnitude conditional 6. No, sensitivity of the installation (O&M) mediated and th

ays all considered.

ntingent on volume of work defined in PD.

ne receptor does not vary based upon ethodology.

ot vary between layout options. Potential for d to be equal.

ot vary between layout options. Potential for ed to be equal.

eceptor is not affected by layout option.

ays all considered.

ntingent on volume of work defined in PD.

ne receptor does not vary based upon ethodology.



Impact	Relevant project details			Representative scenario(s) and notes / assumptions	resentative scenario(s) Rationale for representative scenario(s) notes / assumptions		
	Array site (including WTGs, OSSs and offshore export cables within the Array Site) and Offshore export cable corridor	WTG Option A	WTG Option B		Questions to demonstrate assessment has considered all scenarios	Response	
Impact 3: Accidental pollution events	Total construction vessels (round trips)	1,209	1,209	Accidental pollution events relate to the potential for accidental pollution such as oil and hydraulic fluids being introduced to the environment from vessels during construction activities. The estimated number of vessels required during operation and maintenance are the same regardless of the WTG option selected. Therefore, there is only one scenario for this potential impact, and this represents the representative scenario.		 No, WTG Option B receptor pathways that of the assessment. It is highly unlikely the magnitudes. The estimation operation and mainter option selected. Furthermore, the prime Section 7.9, in the for follow best practice gue sea and that analogous such risk associated w Therefore, option A for assessment with option No, WTG Option B receptor that is being 	

Table 3 Representative scenario assessment – decommissioning phase impacts

Impact	Relev	ant project details			Representative scenario(s) and notes / assumptions	Rationale for representative so	cenario(s)
	Array offsho Site) a corride	site (including WTGs, OSSs and ore export cables within the Array and Offshore export cable or	WTG Option A	WTG Option B		Questions to demonstrate assessment has considered all scenarios	Response
Impact 1: Direct temporary disturbance resulting in temporary increases in SSC Impact 2: Direct disturbance resulting in resuspensi on of contaminat ed sediments	It is re EIA, a In this assum •	cognised that legislation and indus at the end of the operational lifetime regard, for the purposes of a repre- nptions have been made: The WTGs and OSS topsides sh Following WTG and OSS topside cut below the seabed level, to a exposed. This is likely to be appr depend upon the sea-bed condit All cables and associated cable p likely that equipment similar to th burial process and expose them. cables is anticipated to be the sa	try best practice of of the CWP Project esentative scenari all be completely decommissionin depth that will ensi- roximately one me ions and site char protection in the o hat which is used to Therefore, the ar- time as the area in	change over time. ect, all offshore in o for decommission removed; g and removal, the sure the remaining etre below seabed racteristics at the to ffshore environme to install the cable rea of seabed impo inpacted during the	However, for the purposes of the frastructure will be rehabilitated. oning impacts, the following e monopile foundations will be g foundation is unlikely to become l, although the exact depth will time of decommissioning; and ent shall be wholly removed. It is s may be used to reverse the acted during the removal of the e installation of the cables.	 Are there infrastructure layout options (permanent or temporary) which may introduce new impacts? Are there infrastructure layout options (permanent or temporary) which may introduce a materially greater magnitude of impact? Are there infrastructure layout options (permanent or temporary) which may introduce a material change in 	It is not anticipated the infrastructure nor rem Given the above it is a representative scenar identified for the const

8 would not introduce any new impact at have not already been considered as part

that the two layouts will have differing mated number of vessels required during enance are the same regardless of the WTG

nary project mitigation outlined in Chapter 7 orm of a CEMP, will ensure that vessels uidelines for the prevention of pollution at ous protocols are adhered to, to minimise with works in intertidal and onshore habitats. orms the presentational basis for the on B conclusions being no different.

8 will not influence the sensitivity of the assessed.

hat there will be differing options for installed noval methods.

anticipated that for the purposes of a rio, the impacts will be no greater than those truction phase.



Impact	Relevant project details			Representative scenario(s)	Rationale for representative scenario(s)	
				and notes / assumptions		
	Array site (including WTGs, OSSs and offshore export cables within the Array Site) and Offshore export cable corridor	WTG Option A	WTG Option B		Questions to demonstrate assessment has considered all scenarios	Response
		·	·	·	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 greater magnitude of impact?	
					6. Are there alternative installation methods which may materially alter the sensitivity of the relevant receptor(s) (greater or lesser).	
Impact 3: Accidental pollution events	It is recognised that legislation and indus EIA, at the end of the operational lifetime In this regard, for the purposes of a repr assumptions have been made:		For the purposes of t of the CWP Project, a and there will be no c number of vessels re			
	 Generally, decommissioning is anticipation the CWP Project and the assumption therefore the same as described for the same as described	bated to be a reve s around the num he construction pl	rse of the constru ber of vessels on nase of the offsho	ction and installation process for site, and vessel round trips is re components.		Given the above it is representative scena identified for the cons

the EIA, at the end of the operational lifetime all offshore infrastructure will be rehabilitated differing options for removal in terms of equired.

anticipated that for the purposes of a ario, the impacts will be no greater than those struction phase.



4 Limit of Deviation Assessment

- 14. As described in **Section 1** of this document, locational flexibility of permanent and temporary infrastructure is described as a Limit of Deviation (LoD) from a specific point or alignment.
- 15. The project components for which a LoD has been defined are presented in **Table 4**. These are further described in **EIAR Chapter 4 Project Description** and have been presented on the planning drawings that accompany the planning application.

Table 4 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	
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
Onshore Substation	
Location of onshore substation revetment perimeter structure	Defined LoD boundary

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

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if the 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 marine water quality this analysis for construction and is presented **in Table 5**. Where the potential for a LoD to cause a new or materially different effect is identified, then this is noted in the tables below and is considered in full within the main chapter.
- 18. For marine water quality LOD for permanent infrastructure will not give rise to any new or materially different effects for O&M phase impacts.



Table 5 Limit of deviation assessment - construction phase impacts

Impact	Project element	Limit of deviation	Questions to demonstrate assessment has considered all scenarios	Response		
Impact 1: Direct temporary	Generating station		1. Does the proposed LoD (locational flexibility) introduce new	1. No, the implementa		
disturbance resulting in temporary increases in SSC	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 	 impacts? (i.e. the introduction of an existing impact pathway to a new receptor). 2. Does the proposed LoD (locational flexibility) introduce a materially different magnitude of impact? 	 impact receptor pathwas part of the assess 2. No, temporary distuss SSC during pre-instal on the upper limit for limit		
	Offshore export cables	1		elements. LoD associ		
	Offshore export cables	250 m either side of the preferred alignment of each export cable within the array site. The offshore export cable corridor (OECC) outside of the array site.		is minimal and will no of impact.		
	WTGs / OSSs					
	Including monopile and scour protection	100 m from the centre point of each WTG location is proposed to allow for small adjustments to be made to the structure locations.				
	Onshore substation					
	Onshore substation	Defined LoD boundary				
Impact 2: Direct	Generating station	·	1. Does the proposed LoD (locational flexibility) introduce new	1. No, the implementa		
disturbance resulting in resuspension of contaminated sediments	IACs and interconnector cables	 100 m either side of the preferred alignment of each IAC and interconnector cable 200m buffer from the centre point of each WTG location 	 impacts? (i.e. the introduction of an existing impact pathway to a new receptor). 2. Does the proposed LoD (locational flexibility) introduce a materially different magnitude of impact? 	to impact receptor path as part of the assess 2. No, remobilisation installation activities limit for IAC, intercor		
	Offshore export cables			associated with works		
	Offshore export cables	250 m either side of the preferred alignment of each export cable within the array site. The offshore export cable corridor (OECC) outside of the array site.		will not introduce a ma		
	WTGs / OSSs		1			
	WTGs / OSSs	100 m from the centre point of each WTG and OSS location is proposed to allow for small adjustments				

ation of the LoD does not introduce any new ways that have not already been considered ment.

urbance resulting in temporary increases in llation activities has been calculated based IAC, interconnector and export cable in the proposed LoD for these project iated with works at the onshore substation t introduce a materially different magnitude

ation of the LoD does not introduce any new ways that have not already been considered ment.

of contaminated sediments during prenas been calculated based on the upper nector and export cable lengths which ed LoD for these project elements. LoD s at the onshore substation is minimal and aterially different magnitude of impact.



Impact	Project element	Limit of deviation	Questions to demonstrate assessment has considered all scenarios	Response
		to be made to the structure locations.		
	Onshore substation			
	Onshore substation	LoD boundary]	

Table 6 Limit of deviation assessment – operational phase impacts phase impacts

Impact	Project element	Limit of deviation	Questions to demonstrate assessment has considered all scenarios	Response
Impact 1: Direct temporary disturbance resulting in temporary increases in SSC	Generating station		1. Does the proposed LoD (locational flexibility) introduce new	1. No, the implementa
	IACs and interconnector cables	100 m either side of the preferred alignment of each IAC and interconnector cable200 m from the centre point of each WTG location	 impacts? (i.e. the introduction of an existing impact pathway to a new receptor). 2. Does the proposed LoD (locational flexibility) introduce a materially different magnitude of impact? 	2. No, temporary dist SSC has been calcul interconnector and ex
	Offshore export cables			proposed LoD for the
	Offshore export cables	250 m either side of the preferred alignment of each export cable within the array site. The offshore export cable corridor (OECC) outside of the array site.		
	WTGs / OSSs			
	Including monopile and scour protection	100 m from the centre point of each WTG location is proposed to allow for small adjustments to be made to the structure locations.		
Impact 2: Direct	Generating station		1. Does the proposed LoD (locational flexibility) introduce new	1. No, the implementa
disturbance resulting in resuspension of contaminated sediments	IACs and interconnector cables	100 m either side of the preferred alignment of each IAC and interconnector cable200m buffer from the centre point of each WTG location	 impacts? (i.e. the introduction of an existing impact pathway to a new receptor). 2. Does the proposed LoD (locational flexibility) introduce a materially different magnitude of impact? 	2. No, remobilisation calculated based on t export cable lengths v
	Offshore export cables			project cicinents.
	Offshore export cables	250 m either side of the preferred alignment of each export cable within the array site.		

tation of the LoD does not introduce any new ways that have not already been considered sment.

turbance resulting in temporary increases in lated based on the upper limit for IAC, xport cable lengths which factors in the ese project elements.

tation of the LoD does not introduce any new ways that have not already been considered sment.

of contaminated sediments has been the upper limit for IAC, interconnector and which factors in the proposed LoD for these



Impact	Project element	Limit of deviation	Questions to demonstrate assessment has considered all scenarios	Response
		The offshore export cable corridor (OECC) outside of the array site.		
	WTGs / OSSs			
	WTGs / OSSs	100 m from the centre point of each WTG and OSS location is proposed to allow for small adjustments to be made to the structure locations.		