

A photograph of an offshore wind farm at sunset. The sky is a mix of orange, yellow, and grey, with a few clouds. The sea is dark with white-capped waves in the foreground. Several wind turbines are visible, their silhouettes against the bright sky. The overall mood is serene and powerful.

Salamander Offshore Wind Farm

Offshore EIA Report

Volume ER.A.3, Chapter 23: Summary of Impacts and Mitigations



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Glossary

Key Terms	Definition
Cumulative effects	The combined effect of the Salamander Project with the effects from a number of different projects, on the same single receptor/resource.
Cumulative impact	Impacts that result from changes caused by other past, present or reasonably foreseeable actions together with the Salamander Project.
Effect	Term used to express the consequence of an impact. The significance of an effect is determined by correlating the magnitude of the impact with the importance, or sensitivity, of the receptor or resource in accordance with defined significance criteria.
Environmental Impact Assessment (EIA)	A statutory process by which the likely significant effects of certain projects must be assessed before a formal decision to proceed can be made. It involves the collection and consideration of environmental information, which fulfils the assessment requirements of the Environmental Impact Assessment (Scotland) Regulations (2017), including the publication of an Environmental Impact Assessment Report (EIAR).
Environmental Impact Assessment Report (EIAR)	A document reporting the findings of the EIA and produced in accordance with the EIA Regulations.
Export Cable Corridor (ECC)	The specific corridor of seabed (seaward of Mean High Water Springs (MHWS)) and land (landward of MHWS) from the Offshore Array Area (OAA) to the Onshore Substation, within which the export cables will be located.
Impact	An impact is considered to be the change to the baseline as a result of an activity or event related to the Salamander Project. Impacts can be both adverse or beneficial impacts on the environment and be either temporary or permanent.
Inter-Related Effect (or Inter-Relationships)	The likely effects of multiple impacts from the proposed development on one receptor. For example, noise and air quality together could have a greater effect on a residential receptor than each impact considered separately.
Offshore Array Area	The offshore area within which the wind turbine generators, foundations, mooring lines and anchors, and inter-array cables and associated infrastructure will be located.
Offshore Development	The entire Offshore Development, including all offshore components of the Project (WTGs, Inter-array and Offshore Export Cable(s), floating substructures, mooring lines and anchors, and all other associated offshore infrastructure) required across all Project phases from development to decommissioning, for which the Applicant is seeking consent.
Offshore Development Area	The total area comprising the Offshore Array Area and the Offshore Export Cable Corridor.
Offshore Export Cable Corridor	The area that will contain the Offshore Export Cable(s) between the boundary of the Offshore Array Area and MHWS.

Key Terms	Definition
Onshore Development	The entire Onshore Development, including Construction Compounds at the Landfall, temporary working areas, Onshore Export Cables, Transition Joint Bay, Joint Bays, Onshore Substation and Energy Balancing Infrastructure, Construction Compounds, any associated landscaping (if required) and access (and all other associated infrastructure) across all Project phases from development to decommissioning, for which the Applicant is seeking consent.
Onshore Development Area	The total area comprising the Landfall, Onshore Export Cable Corridor, and Onshore Substation, EBI and associated infrastructure.
Onshore Substation	Comprises a compound containing the electrical components for transforming the power supplied from the Salamander Project to 132 kV and to adjust the power quality and power factor, as required to meet the UK Grid Code for supply to the National Grid. The onshore substation is also the compound in which EBI and associated infrastructure will be co-located.
Receptor (Onshore)	Any physical, biological or anthropogenic element of the environment that may be affected or impacted by the Salamander Project. Receptors can include natural features such as rivers, forests and wildlife habitats as well as man-made features like residential areas, schools and cultural heritage sites.
Receptor (Offshore)	Any physical, biological or anthropogenic element of the environment that may be affected or impacted by the Salamander Project. Receptors can include natural features such as the seabed and wildlife habitats as well as man-made features like fishing vessels and cultural heritage sites.
Salamander Project	The proposed Salamander Offshore Wind Farm. The term covers all elements of both the offshore and onshore aspects of the project.

Acronyms

Term	Definition
EBI	Energy Balancing Infrastructure
ECC	Export Cable Corridor
EIA	Environmental Impact Assessment
OAA	Offshore Array Area
WTG	Wind Turbine Generator

23 Summary of Impacts and Mitigations

23.1 Introduction

- 23.1.1.1 This chapter of the Offshore Environmental Impact Assessment Report (EIAR) provides a summary of the potential impacts assessed and conclusions of the EIA undertaken for the Salamander Project Offshore Development. **Table 23-1 to Table 23-15** summarise the Impacts for the Offshore Development considered in isolation and cumulatively with other relevant projects. A cumulative assessment with the Onshore Development is summarised in **Section 23.3**.
- 23.1.1.2 The significance of an effect has been determined within each impact assessment chapter by correlating the magnitude of the impact and the sensitivity of the receptor whilst also utilising professional judgement and industry best practice guidance. A matrix approach has been used throughout with details presented in **Volume ER.A.2, Chapter 6: EIA Methodology**.
- 23.1.1.3 For the purposes of this EIA, where effects are identified as **Minor** or **Negligible** they are deemed to be **Not Significant** in EIA terms. **Major** and **Moderate** effects are deemed to be **Significant** in EIA terms and additional mitigation may be required. Where further mitigation is not feasible, a residual significant effect may remain. Unless otherwise described as beneficial or negligible, all effects reported on within this EIAR are adverse.
- 23.1.1.4 The potential impacts from the Offshore Development have been assessed using the worst-case parameters established within the Project Design Envelope, with the relevant worst-case parameters for each receptor presented within each receptor topic chapter. Embedded mitigation measures (i.e. those built into the Salamander Project concept, either through design (primary mitigation) or implementation of industry best practice (tertiary mitigation)) that will reduce the potential impacts on specific receptors have also been taken into account during the assessments and are presented in each chapter (**Volume ER.A.3, Chapters 7 to 21**); these are also summarised within this Chapter.
- 23.1.1.5 The structure of summary of impacts and mitigation tables shown in **Section 23.2** differ based on the topic, therefore, in some cases the cumulative assessment is presented at the end of each table. Additionally, where an '*' is included within **Table 23-3** and **Table 23-4**, this indicates that the assessment of cumulative significance has been based on expert judgement as to the cumulative receptor sensitivity and cumulative magnitude.
- 23.1.1.6 Based on the conclusions of the EIA, the Offshore Development is not expected to result in significant effects for the majority of environmental receptors assessed and where significant effects have been identified to potentially occur, additional mitigation measures are proposed to reduce effects to non-significant levels.

23.2 Summary of the Offshore Development considered in isolation and cumulatively with other relevant projects

23.2.1 Marine Physical Processes

Table 23-1 Summary of Marine Physical Processes Impacts and Mitigation

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
Marine Physical Processes														
<i>Construction</i>														
Potential increases in SSC and associated changes to seabed substrate	Offshore Array Area (OAA) and Offshore Export Cable Corridor (ECC)	N/A	N/A	N/A	N/A	Potential pathway of effect for other topics: <ul style="list-style-type: none"> Volume ER.A.3, Chapter 8: Water and Sediment Quality; Volume ER.A.3, Chapter 9: Benthic and Intertidal Ecology; Volume ER.A.3, Chapter 10: Fish and Shellfish Ecology; Volume ER.A.3, Chapter 13: Commercial Fisheries; Volume ER.A.3, Chapter 17: Marine Archaeology and Cultural Heritage; and Volume ER.A.3, Chapter 18: Other Users of the Marine Environment. 	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 7: Marine Physical Processes	[Potential pathway of effect for other topics]	N/A	Potential for cumulative interaction is very low, therefore not considered further.				
Potential changes to sediment transport system by changes in wave and current climate	OAA and Offshore ECC	N/A	N/A	N/A	N/A	<ul style="list-style-type: none"> Volume ER.A.3, Chapter 9: Benthic and Intertidal Ecology; Volume ER.A.3, Chapter 10: Fish and Shellfish Ecology; Volume ER.A.3, Chapter 13: Commercial Fisheries; Volume ER.A.3, Chapter 17: Marine Archaeology and Cultural Heritage; and Volume ER.A.3, Chapter 18: Other Users of the Marine Environment. 		[Potential pathway of effect for other topics]	N/A	Potential for cumulative interaction is very low, therefore not considered further.				
Potential changes to the morphology of the seabed (including scour)	OAA and Offshore ECC	Co2 Co14 Co9 Co52 Co30	Designated areas of seabed	High	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 7: Marine Physical Processes as it was concluded that the effect was Not Significant.	Negligible	Not Significant	Potential for cumulative interaction is limited, therefore not considered further.				

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Potential changes in morphology of the coast	OAA and Offshore ECC	Co2 Co14 Co9 Co30	The coast	Medium	Low	Minor		Minor	Not Significant	Potential for cumulative interaction is limited, therefore not considered further.					
<i>Operation and Maintenance</i>															
Potential changes to sediment transport system by changes in wave and current climate	OAA and Offshore ECC	N/A	N/A	N/A	N/A	Potential pathway of effect for other topics: <ul style="list-style-type: none"> • Volume ER.A.3, Chapter 8: Water and Sediment Quality; • Volume ER.A.3, Chapter 9: Benthic and Intertidal Ecology; • Volume ER.A.3, Chapter 10: Fish and Shellfish Ecology; • Volume ER.A.3, Chapter 13: Commercial Fisheries; • Volume ER.A.3, Chapter 17: Marine Archaeology and Cultural Heritage; and • Volume ER.A.3, Chapter 18: Other Users of the Marine Environment. 	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 7: Marine Physical Processes	[Potential pathway of effect for other topics]	N/A	Potential for cumulative interaction is very low, therefore not considered further.					
Potential changes to the morphology of the seabed (including scour)	OAA and Offshore ECC	Co1 Co52	Designated areas of seabed	High	Negligible	Negligible		Negligible	Not Significant	Potential for cumulative interaction is limited, therefore not considered further.					
Potential changes in morphology of the coast	OAA and Offshore ECC	N/A	The coast	Medium	Low	Minor		Minor	Not Significant	Potential for cumulative interaction is limited, therefore not considered further.					

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Potential changes to water column processes (mixing and stratification)	OAA and Offshore ECC	N/A	Water column stratification / the Buchan Front	Medium	Negligible	Negligible Potential pathway of effect for other topics: <ul style="list-style-type: none"> Volume ER.A.3, Chapter 8: Water and Sediment Quality; Volume ER.A.3, Chapter 9: Benthic and Intertidal Ecology; Volume ER.A.3, Chapter 10: Fish and Shellfish Ecology; Volume ER.A.3, Chapter 13: Commercial Fisheries; Volume ER.A.3, Chapter 17: Marine Archaeology and Cultural Heritage; and Volume ER.A.3, Chapter 18: Other Users of the Marine Environment. 		Negligible	Not Significant	Medium	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 7: Marine Physical Processes	Negligible	Not Significant
<i>Decommissioning</i>															
Potential increases in SSC and associated changes to seabed substrate	OAA and Offshore ECC	N/A	N/A	N/A	N/A	Potential pathway of effect for other topics: <ul style="list-style-type: none"> Volume ER.A.3, Chapter 8: Water and Sediment Quality; Volume ER.A.3, Chapter 9: Benthic and Intertidal Ecology; Volume ER.A.3, Chapter 10: Fish and Shellfish Ecology; Volume ER.A.3, Chapter 13: Commercial Fisheries; Volume ER.A.3, Chapter 17: Marine Archaeology 	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 7: Marine Physical Processes	[Potential pathway of effect for other topics]	N/A	Potential for cumulative interaction is very low, therefore not considered further.					
Potential changes to sediment transport system by changes in wave and current climate	OAA and Offshore ECC	N/A	N/A	N/A	N/A	<ul style="list-style-type: none"> Volume ER.A.3, Chapter 9: Benthic and Intertidal Ecology; Volume ER.A.3, Chapter 10: Fish and Shellfish Ecology; Volume ER.A.3, Chapter 13: Commercial Fisheries; Volume ER.A.3, Chapter 17: Marine Archaeology 		[Potential pathway of effect for other topics]	N/A	Potential for cumulative interaction is very low, therefore not considered further.					

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
						and Cultural Heritage; and • Volume ER.A.3, Chapter 18: Other Users of the Marine Environment.								

23.2.2 Water and Sediment Quality

Table 23-2 Summary of Water and Sediment Quality Impacts and Mitigation

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Water and Sediment Quality															
<i>Construction</i>															
Remobilisation of sediments causing increased suspended solids concentration in the water column leading to deterioration of water quality	OAA and Offshore ECC	Co4	Sediment quality	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 8: Water and Sediment Quality as it was concluded that the effect was Not Significant	Minor	Not Significant	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 8: Water and Sediment Quality as it was concluded that the effect was Not Significant	Minor	Not Significant
		Co5	Water quality	Medium	Low	Minor		Minor	Not Significant	Medium	Low	Minor		Minor	Not Significant
		Co6	Water quality within designated WFD water bodies	Medium	Low	Minor		Minor	Not Significant	Medium	Low	Minor		Minor	Not Significant
Remobilisation of sediments and use of drilling muds causing potential resuspension of contaminated sediments into the water column leading to deterioration of water and sediment quality	OAA and Offshore ECC	Co4	Sediment quality	Negligible	Low	Negligible		Negligible	Not Significant	Negligible to Medium	Low	Minor		Minor	Not Significant
		Co5	Water quality	Medium	Low	Minor		Minor	Not Significant	Negligible to Medium	Low	Minor		Minor	Not Significant
		Co6	Water quality within designated WFD water bodies	Medium	Low	Minor		Minor	Not Significant	Negligible to Medium	Low	Minor		Minor	Not Significant
Accidental release of pollutants and sewage waste into the water column from vessels and helicopters during transit and construction operations	OAA and Offshore ECC	Co3	Sediment quality	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
		Co7	Water quality	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
		Co9	Water quality within designated WFD water bodies	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
Accidental release of litter and debris into the water column from vessels and		Co3	Sediment quality	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
helicopters during transit and construction operations	OAA and Offshore ECC	Co7	Water quality	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
		Co9	Water quality within designated WFD water bodies	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
<i>Operation and Maintenance</i>															
Remobilisation of sediments causing increased suspended solids concentration in the water column leading to deterioration of water quality	OAA and Offshore ECC	Co10	Sediment quality	Low	Low	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 8: Water and Sediment Quality as it was concluded that the effect was Not Significant	Negligible	Not Significant	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 8: Water and Sediment Quality as it was concluded that the effect was Not Significant	Minor	Not Significant
			Water quality	Medium	Low	Minor		Minor	Not Significant	Medium	Low	Minor		Minor	Not Significant
			Water quality within designated WFD water bodies	Medium	Low	Minor		Minor	Not Significant	Medium	Low	Minor		Minor	Not Significant
Accidental release of pollutants and sewage waste into the water column from vessels and helicopters during transit, operations and maintenance	OAA and Offshore ECC	Co3	Sediment quality	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
		Co7	Water quality	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
		Co10	Water quality within designated WFD water bodies	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
Accidental release of litter and debris into the water column from vessels and helicopters during transit and construction operations	OAA and Offshore ECC	Co3	Sediment quality	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
		Co7	Water quality	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
		Co10	Water quality within designated WFD water bodies	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Removal of biofouling from the subsea structures and leaching of antifouling, anticorrosive agents from coated infrastructure leading to water and sediment quality deterioration	OAA and Offshore ECC	Co10	Sediment quality	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
			Water quality	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
			Water quality within designated WFD water bodies	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
<i>Decommissioning</i>															
Remobilisation of sediments causing increased suspended solids concentration in the water column leading to deterioration of water quality	OAA and Offshore ECC	Co3 Co7 Co10	Sediment quality	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed, as it was concluded that the effect was Not Significant	Minor	Not Significant	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 8: Water and Sediment Quality as it was concluded that the effect was Not Significant	Minor	Not Significant
			Water quality	Medium	Low	Minor		Minor	Not Significant	Medium	Low	Minor		Minor	Not Significant
			Water quality within designated WFD water bodies	Medium	Low	Minor		Minor	Not Significant	Medium	Low	Minor		Minor	Not Significant
Remobilisation of sediments causing potential resuspension of contaminated sediments into the water column leading to deterioration of water and sediment quality	OAA and Offshore ECC	Co3 Co7 Co10	Sediment quality	Negligible	Low	Negligible		Negligible	Not Significant	Medium	Low	Minor		Minor	Not Significant
			Water quality	Medium	Low	Minor		Minor	Not Significant	Medium	Low	Minor		Minor	Not Significant
			Water quality within designated WFD water bodies	Medium	Low	Minor		Minor	Not Significant	Medium	Low	Minor		Minor	Not Significant
Accidental release of pollutants and sewage waste and into the water column from vessels and helicopters during transit and decommissioning operations	OAA and Offshore ECC	Co3 Co7	Sediment quality	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
			Water quality	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
			Water quality within designated WFD water bodies	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
Accidental release of litter and debris into the water column from vessels and helicopters during transit and decommissioning operations	OAA and Offshore ECC	Co3	Sediment quality	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
		Co7	Water quality	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant
			Water quality within designated WFD water bodies	Low	Low	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant

23.2.3 Benthic and Intertidal Ecology

Table 23-3 Summary of Benthic and Intertidal Ecology Impacts and Mitigation

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Benthic and Intertidal Ecology															
<i>Construction</i>															
Temporary habitat loss	OAA and Offshore ECC	Co14 Co12	VER B Infralittoral Rock (Scenario 1) VER C Circalittoral Rock (Scenario 1) VER D Sabellaria on Atlantic Rock (Scenario 1) VER G Sublittoral coarse sediment (Scenario 1) Ocean quahog	Medium – High	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 9: Benthic and Intertidal Ecology it was concluded that the effect was Not Significant	Negligible	Not Significant	*	*	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 9: Benthic and Intertidal Ecology as it was concluded that the effect was Not Significant	Minor	Not Significant
	OAA and Offshore ECC	Co14 Co12	VER B Infralittoral Rock (Scenario 2) VER C Circalittoral Rock (Scenario 2) VER D Sabellaria on Atlantic Rock (Scenario 2) VER E Circalittoral Mixed Sediment VER F Sabellaria on Mixed Sediment (Scenario 1 & 2) VER G Sublittoral coarse sediment (Scenario 2) VER H Littoral sand VER I Sublittoral Sand VER J Circalittoral Mud	Medium – High	Low	Minor		Minor	Not Significant	Medium – High	Low	Minor		Minor	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation								Cumulative assessment with other relevant projects				
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Increase SSC and associated deposition	OAA and Offshore ECC	Co48	VER B Infralittoral Rock (Scenario 1)	Low	Negligible	Negligible		Negligible	Not Significant	*	*	Minor		Minor	Not Significant
		Co9	VER E Circalittoral Mixed Sediment VER G Sublittoral Coarse Sediment (Scenario 1 & 2) VER H Littoral Sand VER K Ocean quahog	High	- Low										
	OAA and Offshore ECC	Co48	VER A Littoral Rock	Medium	Low	Minor		Minor	Not Significant	Medium	Low	Minor		Minor	Not Significant
		Co9	VER B Infralittoral Rock (Scenario 2) VER C Circalittoral Rock (Scenario 1 & 2) VER D Sabellaria on Atlantic Rock (Scenario 1 & 2) VER F Sabellaria on Mixed Sediment (Scenario 1 & 2) VER I Sublittoral Sand VER J Circalittoral Mud												
Increased risk and introduction and spread of INNS	OAA and Offshore ECC	Co9	VER B Infralittoral Rock (Scenario 1)	Low	Negligible	Negligible		Negligible	Not Significant	*	*	Minor		Minor	Not Significant
		Co44	VER C Circalittoral Rock (Scenario 1) VER D Sabellaria on Atlantic Rock (Scenario 1) VER E Circalittoral Mixed Sediment VER F Sabellaria on Mixed Sediment (Scenario 1 & 2) VER G Sublittoral Coarse Sediment	High	- Low										

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
			(Scenario 1) VER H Littoral Sand VER I Sublittoral Sand VER J Circalittoral Mud VER K Ocean quahog												
	OAA and Offshore ECC	Co9 Co44	VER B Infralittoral Rock (Scenario 2) VER C Circalittoral Rock (Scenario 2) VER D Sabellaria on Atlantic Rock (Scenario 2) VER G Sublittoral Coarse Sediment (Scenario 2)	Medium – High	Low	Minor		Minor	Not Significant	Medium – High	Low	Minor		Minor	Not Significant
Disturbance of contaminated sediments	OAA and Offshore ECC	Co9 Co48	VER A Littoral Rock VER B Infralittoral Rock (Scenario 1 & 2) VER C Circalittoral Rock (Scenario 1 & 2) VER D Sabellaria on Atlantic Rock (Scenario 1 & 2) VER E Circalittoral Mixed Sediment VER F Sabellaria on Mixed Sediment (Scenario 1 & 2) VER G Sublittoral Coarse Sediment (Scenario 1 & 2) VER H Littoral Sand	Low – Medium	Negligible – Low	Negligible		Negligible	Not Significant	*	*	Minor		Minor	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	
	OAA and Offshore ECC	Co9 Co48	VER I Sublittoral Sand VER J Circalittoral Mud VER K Ocean quahog	Medium	Low	Minor		Minor	Not Significant	Medium	Low	Minor		Minor	Not Significant	
<i>Operation and Maintenance</i>																
Long-term loss to benthic habitats and species	OAA and Offshore ECC	Co14 Co12	VER B Infralittoral Rock (Scenario 1 & 2) VER C Circalittoral Rock (Scenario 1 & 2) VER D Sabellaria on Atlantic Rock (Scenario 1 & 2) VER G Sublittoral Coarse Sediment (Scenario 1) VER K Ocean quahog	Low – High	Negligible – Low	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 9: Benthic and Intertidal Ecology as it was concluded that the effect was Not Significant	Negligible	Not Significant	*	*	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 9: Benthic and Intertidal Ecology as it was concluded that the effect was Not Significant	Minor	Not Significant	
	OAA and Offshore ECC	Co14 Co12	VER E Circalittoral Mixed Sediment VER F Sabellaria on Mixed Sediment (Scenario 1 & 2) VER G Sublittoral Coarse Sediment (Scenario 2) VER I Sublittoral Sand VER J Circalittoral Mud	High	Low	Minor		Minor	Not Significant	High	Low	Minor		Minor	Not Significant	
Temporary habitat loss or disturbance	OAA and Offshore ECC	Co14 Co12 Co10	VER B Infralittoral Rock (Scenario 1) VER C Circalittoral Rock (Scenario 1) VER D Sabellaria on	Medium – High	Negligible	Negligible		Negligible	Not Significant	*	*	Minor		Minor	Not Significant	

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
			Atlantic Rock (Scenario 1) VER G Sublittoral Coarse Sediment (Scenario 1) VER K Ocean quahog												
	OAA and Offshore ECC	Co14 Co12 Co10	VER B Infralittoral Rock (Scenario 2) VER C Circalittoral Rock (Scenario 2) VER D Sabellaria on Atlantic Rock (Scenario 2) VER E Circalittoral Mixed Sediment VER F Sabellaria on Mixed Sediment (Scenario 1 & 2) VER G Sublittoral Coarse Sediment (Scenario 2) VER H Littoral Sand VER I Sublittoral Sand VER J Circalittoral Mud	Medium	Low	Minor		Minor	Not Significant	Medium	Low	Minor		Minor	Not Significant
Increased risk and introduction and spread of INNS	OAA and Offshore ECC	Co10 Co13 Co44	VER B Infralittoral Rock (Scenario 1) VER C Circalittoral Rock (Scenario 1) VER D Sabellaria on Atlantic Rock (Scenario 1) VER E Circalittoral Mixed Sediment VER F Sabellaria on Mixed Sediment (Scenario 1 & 2) VER G Sublittoral	Low – High	Negligible – Low	Negligible		Negligible	Not Significant	*	*	Minor		Minor	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
			Coarse Sediment (Scenario 1) VER H Littoral Sand VER I Sublittoral Sand VER J Circalittoral Mud VER K Ocean quahog												
	OAA and Offshore ECC	Co10 Co13 Co44	VER B Infralittoral Rock (Scenario 2) VER C Circalittoral Rock (Scenario 2) VER D Sabellaria on Atlantic Rock (Scenario 2) VER G Sublittoral Coarse Sediment (Scenario 2)	Medium – High	Low	Minor		Minor	Not Significant	Medium – High	Low	Minor		Minor	Not Significant
Impact of habitats or species as a result of pollution or accidental discharge	OAA and Offshore ECC	Co10 Co7	VER A Littoral Rock VER B Infralittoral Rock (Scenario 1 & 2) VER C Circalittoral Rock (Scenario 1 & 2) VER D Sabellaria on Atlantic Rock (Scenario 1 & 2) VER E Circalittoral Mixed Sediment VER F Sabellaria on Mixed Sediment (Scenario 1 & 2) VER G Sublittoral Coarse Sediment (Scenario 1 & 2) VER H Littoral Sand VER I Sublittoral Sand	Low – Medium	Negligible	Negligible		Negligible	Not Significant	*	*	Minor		Minor	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
			VER J Circalittoral Mud VER K Ocean quahog												
Impact of habitats or species as a result of pollution or accidental discharge	OAA and Offshore ECC	Co10 Co7	VER A Littoral Rock VER B Infralittoral Rock (Scenario 1 & 2) VER C Circalittoral Rock (Scenario 1 & 2) VER D Sabellaria on Atlantic Rock (Scenario 1 & 2) VER E Circalittoral Mixed Sediment VER F Sabellaria on Mixed Sediment (Scenario 1 & 2) VER G Sublittoral Coarse Sediment (Scenario 1 & 2) VER H Littoral Sand VER I Sublittoral Sand VER J Circalittoral Mud VER K Ocean quahog	Low – Medium	Negligible	Negligible		Negligible	Not Significant	*	*	Minor		Minor	Not Significant
Hydrodynamic changes leading to scour around subsea infrastructure	OAA and Offshore ECC	N/A	VER B Infralittoral Rock (Scenario 1) VER C Circalittoral Rock (Scenario 1) VER D Sabellaria on Atlantic Rock (Scenario 1) VER G Sublittoral Coarse Sediment (Scenario 1)	Medium – High	Negligible	Negligible		Negligible	Not Significant	*	*	Minor		Minor	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
			VER K Ocean quahog												
	OAA and Offshore ECC	N/A	VER B Infralittoral Rock (Scenario 2) VER C Circalittoral Rock (Scenario 2) VER D Sabellaria on Atlantic Rock (Scenario 2) VER E Circalittoral Mixed Sediment VER F Sabellaria on Mixed Sediment (Scenario 1 and 2) VER G Sublittoral Coarse Sediment (Scenario 2) VER I Sublittoral Sand VER J Circalittoral Mud	Medium – High	Low	Minor		Minor	Not Significant	Medium – High	Low	Minor		Minor	Not Significant
Colonisation of hard structures	OAA and Offshore ECC	N/A	VER A Littoral Rock VER B Infralittoral Rock (Scenario 1 & 2) VER C Circalittoral Rock (Scenario 1 & 2) VER D Sabellaria on Atlantic Rock (Scenario 1 & 2) VER E Circalittoral Mixed Sediment VER F Sabellaria on Mixed Sediment (Scenario 1 & 2) VER G Sublittoral Coarse Sediment (Scenario 1 & 2) VER H Littoral Sand	Medium	Low	Minor		Minor	Not Significant	Medium	Low	Minor		Minor	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
			VER I Sublittoral Sand VER J Circalittoral Mud VER K Ocean quahog												
Impact of cable thermal load or EMF on benthic ecology	OAA and Offshore ECC	N/A	VER A Littoral Rock VER B Infralittoral Rock (Scenario 1 & 2) VER C Circalittoral Rock (Scenario 1 & 2) VER D Sabellaria on Atlantic Rock (Scenario 1 & 2) VER G Sublittoral Coarse Sediment (Scenario 1) VER K Ocean quahog	Low – Medium	Negligible – Low	Negligible		Negligible	Not Significant	*	*	Minor		Minor	Not Significant
	OAA and Offshore ECC	N/A	VER E Circalittoral Mixed Sediment VER F Sabellaria on Mixed Sediment (Scenario 1 & 2) VER G Sublittoral Coarse Sediment (Scenario 2) VER H Littoral Sand VER I Sublittoral Sand VER J Circalittoral Mud	Medium	Low	Minor		Minor	Not Significant	Medium	Low	Minor		Minor	Not Significant
<i>Decommissioning</i>															
Removal of Artificial Hard Substrate	OAA and Offshore ECC	Co28	VER B Infralittoral Rock (Scenario 1 & 2)	Medium – High	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3,	Minor	Not Significant	Medium – High	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume	Minor	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects									
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms			
			VER C Circalittoral Rock (Scenario 1 & 2) VER D Sabellaria on Atlantic Rock (Scenario 1 & 2) VER E Circalittoral Mixed Sediment VER F Sabellaria on Mixed Sediment (Scenario 1 & 2) VER G Sublittoral Coarse Sediment (Scenario 1 & 2) VER H Littoral Sand VER I Sublittoral Sand VER J Circalittoral Mud VER K Ocean quahog					Chapter 9: Benthic and Intertidal Ecology. as it was concluded that the effect was Not Significant								ER.A.3, Chapter 9: Benthic and Intertidal Ecology . as it was concluded that the effect was Not Significant		

23.2.4 Fish and Shellfish Ecology

Table 23-4 Summary of Fish and Shellfish Ecology Impacts and Mitigation

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects								
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms			
Fish and Shellfish Ecology																		
<i>Construction / Decommissioning</i>																		
Damage or disturbance to sensitive species due to underwater noise generated from construction activities (Separate magnitude and significance scores are provided for UXO, impact piling, and other noise-producing activities)	OAA and Offshore ECC	Co14 Co15	Fish with a swim bladder-inner ear connection used in hearing	Medium	Low (Impact Piling) Negligible (UXO and Other Noise-Producing Activities)	Minor (Impact Piling) Negligible (UXO and Other Noise-Producing Activities)	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 10: Fish and Shellfish Ecology as it was concluded that the effect was Not Significant	Minor (Impact Piling) Negligible (UXO and Other Noise-Producing Activities)	Not Significant Not Significant	* *	* *	Moderate Moderate	Co58	Minor Minor	Not Significant Not Significant			
			Fish with a swim bladder not used in hearing	Low	Negligible	Negligible		Not Significant	No potential Significant Cumulative Impacts.									
			Fish without a swim bladder															
			Eggs and larvae															
			Shellfish															
Temporary habitat loss or disturbance during the installation of all infrastructure and placement of vessel anchors on the seabed	OAA and Offshore ECC	Co9 Co14	Elasmobranchs	Low	Low	Negligible		Negligible	Not Significant	No potential Significant Cumulative Impacts.								
			Demersal Fish	Low				Not Significant										
			Sandeel	Medium		Minor		Not Significant										
			Pelagic Fish	Negligible		Negligible		Not Significant										
			Atlantic herring	Medium		Minor		Not Significant										

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects												
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms						
Temporary increases in suspended sediment concentrations and potential sedimentation/ smothering of fish and shellfish	OAA and Offshore ECC	Co14	Diadromous Fish	Negligible		Negligible		Negligible	Not Significant												
			Shellfish	Low																	
			Elasmobranchs	Negligible	Low	Negligible		Negligible	Not Significant							*	*	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 10: Fish and Shellfish Ecology as it was concluded that the effect was Not Significant	Minor	Not Significant
			Demersal Fish	Medium	Minor	Minor		Not Significant	Medium							Low	Minor	Minor		Not Significant	
			Pelagic Fish															Minor		Minor	Not Significant
Diadromous Fish	Negligible		Negligible	Negligible	Not Significant	*	*	Minor	Minor	Not Significant											
Shellfish	Medium	Minor	Minor	Not Significant	Medium	Low	Minor	Minor	Not Significant												

Operation and Maintenance

Disturbance or damage to sensitive species due to underwater noise generated from operation and maintenance activities	OAA and Offshore ECC	N/A	Fish with a swim bladder-inner ear connection used in hearing	Medium	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 10: Fish and Shellfish Ecology as it was concluded that the effect was Not Significant	Negligible	Not Significant	Medium	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 10: Fish and Shellfish Ecology as it was concluded that the effect was Not Significant	Negligible	Not Significant	
			Fish with a swim bladder not used in hearing	Low												Low
			Fish without a swim bladder													
			Eggs and larvae													
			Shellfish													

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects								
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms		
Habitat loss due to the presence of infrastructure on the seabed and associated scour protection	OAA and Offshore ECC	Co14	Elasmobranchs	Low	Low	Negligible		Negligible	Not Significant	No potential Significant Cumulative Impacts.							
			Demersal Fish														
			Sandeel	Medium		Minor		Minor	Not Significant								
			Pelagic Fish	Low		Negligible		Negligible	Not Significant								
			Atlantic herring	Medium		Minor		Minor	Not Significant								
			Diadromous Fish	Low		Negligible		Negligible	Not Significant								
			Shellfish														
Effects of thermal load and EMFs from subsea and dynamic cables on sensitive species	OAA and Offshore ECC	No further mitigation is proposed to reduce the effects of EMF. However, it is noted that cable route selection and burial is expected to have a beneficial secondary effect by reducing the volume of water or the likelihood of sensitive species from being exposed to EMF.	Elasmobranchs	Low	Low	Negligible		Negligible	Not Significant	No potential Significant Cumulative Impacts.							
			Demersal Fish	Negligible													
			Pelagic Fish														
			Diadromous Fish														
			Shellfish														
Fish aggregation around the floating substructures and associated infrastructure	OAA	N/A	Elasmobranchs	Negligible	Negligible	Negligible		Negligible	Not Significant	No potential Significant Cumulative Impacts.							
			Demersal Fish	Low													
			Pelagic Fish														

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Ghost fishing due to lost fishing gear becoming entangled in installed infrastructure	OAA	Co10	Elasmobranchs	Medium	Negligible	Negligible		Negligible	Not Significant	*	*	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 10: Fish and Shellfish Ecology as it was concluded that the effect was Not Significant	Minor	Not Significant
			Demersal Fish							*	*	Minor		Minor	Not Significant
			Pelagic Fish							*	*	Minor		Minor	Not Significant
			Diadromous Fish							*	*	Minor		Minor	Not Significant
			Shellfish							*	*	Minor		Minor	Not Significant
Diadromous Fish															
Shellfish															

23.2.5 Marine Mammals

Table 23-5 Summary of Marine Mammals Impacts and Mitigation

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects				
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
Marine Mammals														
<i>Construction</i>														
Auditory Injury (PTS) from pre-construction geophysical surveys	Offshore ECC and OAA	Co16	All marine mammals	Negligible to Low	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 11: Marine Mammals as it was concluded that the effect was Not Significant.	Negligible	Not Significant	Cumulative effects for Marine Mammals have been assessed separately and evaluated below.				
Disturbance from pre-construction geophysical surveys	Offshore ECC and OAA	N/A	All marine mammals	Negligible to Low	Negligible	Negligible		Negligible	Not Significant					
Auditory Injury (PTS) from UXO clearance	Offshore ECC and OAA	Co16	Porpoise, dolphins and seals	Low	Negligible with UXO MMMP	Negligible		Negligible	Not Significant					
			Minke whale	Medium										
Disturbance from UXO clearance (26km EDR, 5km EDR and TTS)	Offshore ECC and OAA	N/A	All marine mammals	Low	Low	Negligible		Negligible	Not Significant					
Auditory Injury (PTS) from piling of anchors	OAA	Co16	Porpoise, dolphins and seals	Low	Negligible with Piling MMMP	Negligible		Negligible	Not Significant					
			Minke whale	Medium										
Disturbance from piling of anchors	OAA	N/A	Harbour porpoise	Low	Negligible	Negligible		Negligible	Not Significant					
			Bottlenose dolphin	Low	Negligible									
			White-beaked dolphin	Low	Low									
			Minke whale	Low	Low									
			Harbour seal	Medium	Negligible									
			Grey seal	Negligible	Negligible									
Auditory Injury (PTS) from other construction activities	Offshore ECC and OAA	N/A	Porpoise, dolphins and seals	Low	Negligible	Negligible	Negligible	Not Significant						

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation				Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Cumulative assessment with other relevant projects				
			Receptor	Sensitivity	Magnitude	Significance of Effect				Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
Disturbance from other construction activities	Offshore ECC and OAA	Co11	Minke whale	Medium	Negligible	Negligible		Negligible	Not Significant					
			Porpoise, dolphins and minke whale	Low	Low									
			Seals	Negligible	Low									
Disturbance from vessels	Offshore ECC and OAA	Co11	All marine mammals	Low	Low with VMP	Negligible		Negligible	Not Significant					
Indirect impacts on prey	Offshore ECC and OAA	N/A	All marine mammals	Low	Low	Negligible		Negligible	Not Significant					

Operation and Maintenance

Auditory Injury (PTS) from pre-construction geophysical surveys	Offshore ECC and OAA	Co16	All marine mammals	Negligible to Low	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 11: Marine Mammals as it was concluded that the effect was Not Significant.	Negligible	Not Significant	Cumulative effects for Marine Mammals have been assessed separately and evaluated below.				
Disturbance from pre-construction geophysical surveys	Offshore ECC and OAA	N/A	All marine mammals	Negligible to Low	Negligible	Negligible		Negligible	Not Significant					
Risk of injury resulting from entanglement (Direct/Primary)	OAA	N/A	All marine mammals	High	Negligible	Negligible		Negligible	Not Significant					
Risk of injury resulting from entanglement (Indirect/Secondary)	OAA	Co17	All marine mammals	High	Low	Minor		Minor	Not Significant					
Risk of injury resulting from marine mammal collisions with WTG substructures	OAA	N/A	Porpoise, dolphins and seals	Negligible	Negligible	Negligible		Negligible	Not Significant					
			Minke whale	Low	Low									
Operational noise impacts from operational floating WTGs	OAA	N/A	Porpoise, dolphins and seals	Negligible	Negligible	Negligible	Negligible	Not Significant						
			Minke whale	Low										

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Displacement or barrier effects resulting from the physical presence of Offshore Array infrastructure	Offshore ECC and OAA	N/A	All marine mammals	Negligible	Negligible	Negligible		Negligible	Not Significant						
Long-term habitat change due to dynamic cable EMF emissions and indirect impacts on prey	Offshore ECC and OAA	N/A	All marine mammals	Low	Negligible	Negligible		Negligible	Not Significant						
<i>Decommissioning</i>															
Auditory injury (PTS) from decommissioning activities	Offshore ECC and OAA	Co16	All marine mammals	Low	Low	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 11: Marine Mammals as it was concluded that the effect was Not Significant.	Negligible	Not Significant	Cumulative effects for Marine Mammals have been assessed separately and evaluated below.					
Disturbance from decommissioning activities and vessels	Offshore ECC and OAA	Co11	Porpoise	Medium	Low	Negligible		Negligible	Not Significant						
			Dolphins, minke whale and seals	Low											
Indirect impacts on prey	Offshore ECC and OAA	N/A	All marine mammals	Low	Negligible	Negligible	Negligible	Not Significant							
<i>Cumulative Effect Assessment on individual receptors</i>															
Potential disturbance from underwater noise during Construction (piling)	Offshore ECC and OAA	N/A	Harbour Porpoise	Offshore Development impacts in isolation have been assessed separately and included above.				Low	Medium	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 11: Marine Mammals as it was concluded that the effect was Not Significant	Minor	Not Significant		
			Minke Whale					Low	Medium	Minor		Minor	Not Significant		
			Bottlenose Dolphin					Low	Medium	Minor		Minor	Not Significant		
			White-beaked Dolphin					Low	Medium	Minor		Minor	Not Significant		
			Harbour Seal					Medium	Low	Minor		Minor	Not Significant		
			Grey Seal					Negligible	Medium	Negligible		Negligible	Not Significant		

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation					Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
Potential for indirect/secondary entanglement with mooring lines and dynamic cables			All marine mammals						High	Low	Minor		Minor	Not Significant

23.2.6 Offshore and Intertidal Ornithology

Table 23-6 Summary of Offshore and Intertidal Ornithology Impacts and Mitigation

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Offshore Ornithology															
<i>Construction</i>															
Disturbance (vessel-related)	OAA and Offshore ECC	Co9 Co11	Common Guillemot (<i>Uria aalge</i>)	Low	Low	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 12: Offshore Ornithology as it was concluded that the effect was Not Significant.	Negligible	Not Significant	No potential for Significant Cumulative Impact					
			Razorbill (<i>Alca torda</i>)	Medium	Low	Minor		Minor	Not Significant						
			Atlantic Puffin (<i>Fratercula arctica</i>)	Low	Low	Negligible		Negligible	Not Significant						
			Intertidal Birds	High	Low	Minor		Minor	Not Significant						
Temporary Habitat Loss (Short-term)	OAA and Offshore ECC	Co14	Black-legged Kittiwake (<i>Rissa tridactyla</i>)	Medium	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 12: Offshore Ornithology as it was concluded that the effect was Not Significant.	Negligible	Not Significant	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 12: Offshore Ornithology as it was concluded that the effect was Not Significant.	Minor	Not Significant
			Common Guillemot (<i>Uria aalge</i>)	Medium	Low	Minor		Minor	Not Significant	No potential for Significant Cumulative Impact					
			Razorbill (<i>Alca torda</i>)	Medium	Low	Minor		Minor	Not Significant						
			Atlantic Puffin (<i>Fratercula arctica</i>)	Medium	Low	Minor		Minor	Not Significant						
Turbidity (Suspended Sediment)	OAA and Offshore ECC	N/A	Common Guillemot (<i>Uria aalge</i>)	Medium	Low	Minor		Minor	Not Significant	No potential for Significant Cumulative Impact					

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
			Razorbill (<i>Alca torda</i>)	Medium	Low	Minor		Minor	Not Significant						
			Atlantic Puffin (<i>Fratercula arctica</i>)	Medium	Low	Minor		Minor	Not Significant						
			Northern Gannet (<i>Morus bassanus</i>)	Low	Low	Negligible		Negligible	Not Significant						
<i>Operation and Maintenance</i>															
Disturbance (Vessel-related)	OAA and Offshore ECC	Co10 Co11	Common Guillemot (<i>Uria aalge</i>)	Low	Low	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 12: Offshore Ornithology as it was concluded that the effect was Not Significant.	Negligible	Not Significant	No potential for Significant Cumulative Impact					
			Razorbill (<i>Alca torda</i>)	Medium	Low	Minor		Minor	Not Significant						
			Atlantic Puffin (<i>Fratercula arctica</i>)	Low	Low	Negligible		Negligible	Not Significant						
			Intertidal Birds	High	Low	Minor		Minor	Not Significant						
Distributional Responses (Displacement and Barrier Effects)	OAA	N/A	Black-legged Kittiwake (<i>Rissa tridactyla</i>)	Low	Low	Negligible		Negligible	Not Significant	Low	Medium	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 12: Offshore Ornithology as it was concluded that the effect was Not Significant.	Minor	Not Significant
			Common Guillemot (<i>Uria aalge</i>)	Medium	Low	Minor		Minor	Not Significant	Medium	Low	Minor		Minor	Not Significant
			Razorbill (<i>Alca torda</i>)	Medium	Negligible	Negligible		Negligible	Not Significant	Medium	Low	Minor		Minor	Not Significant
			Atlantic Puffin (<i>Fratercula arctica</i>)	Low	Negligible	Negligible		Negligible	Not Significant	Low	Medium	Minor		Minor	Not Significant
			Northern Gannet (<i>Morus bassanus</i>)	Low	Negligible	Negligible		Negligible	Not Significant	Low	Medium	Minor		Minor	Not Significant
Collision	OAA and Offshore ECC	N/A	Black-legged Kittiwake (<i>Rissa tridactyla</i>)	High	Low	Minor		Minor	Not Significant	High	Low	Minor	Minor	Not Significant	

Project Activity and Impact			Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation					Cumulative assessment with other relevant projects							
					Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
					Great Black-backed Gull (<i>Larus marinus</i>)	High	Negligible	Negligible		Negligible	Not Significant	High	Low	Minor		Minor	Not Significant
					European Herring Gull (<i>Larus argentatus</i>)	High	Low	Minor		Minor	Not Significant	High	Low	Minor		Minor	Not Significant
					Northern Gannet (<i>Morus bassanus</i>)	High	Negligible	Negligible		Negligible	Not Significant	High	Low	Minor		Minor	Not Significant
Temporary (Long-term)	Habitat Loss	OAA and Offshore ECC	Co14	Black-legged Kittiwake (<i>Rissa tridactyla</i>)	Negligible	Negligible	Negligible		Negligible	Not Significant	Negligible to low	Low to Medium	Minor		Minor	Not Significant	
				Common Guillemot (<i>Uria aalge</i>)	Negligible	Low	Negligible		Negligible	Not Significant	Negligible to low	Low to Medium					Not Significant
				Razorbill (<i>Alca torda</i>)	Negligible	Low	Negligible		Negligible	Not Significant	Negligible to low	Low to Medium					Not Significant
				Atlantic Puffin (<i>Fratercula arctica</i>)	Negligible	Low	Negligible		Negligible	Not Significant	Negligible to low	Low to Medium					Not Significant
Entanglement	OAA	Co17	Common Guillemot (<i>Uria aalge</i>)	Medium	Negligible	Negligible		Negligible	Not Significant	No potential for Significant Cumulative Impact							
			Razorbill (<i>Alca torda</i>)	Medium	Negligible	Negligible		Negligible	Not Significant								
			Atlantic Puffin (<i>Fratercula arctica</i>)	Medium	Negligible	Negligible		Negligible	Not Significant								
			Northern Gannet (<i>Morus bassanus</i>)	Low	Negligible	Negligible		Negligible	Not Significant								

23.2.7 Commercial Fisheries

Table 23-7 Summary of Commercial Fisheries Impacts and Mitigation

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Commercial Fisheries															
<i>Construction and Decommissioning</i>															
Loss or restricted access to fishing grounds	OAA and Offshore ECC	Co14	Potters	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 13: Commercial Fisheries as it was concluded that the effect was Not Significant .	Minor	Not Significant	Medium	Medium	Moderate	Co51	Minor	Not Significant
		Co9	Handliners and fishers using gear with hooks	Low	Low	Negligible		Negligible	Not Significant	Low	Medium	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 13: Commercial Fisheries as it was concluded that the effect was Not Significant .	Minor	Not Significant
		Co11		Low	Low	Negligible		Negligible	Not Significant	Low	Medium	Minor			
		Co18		Low	Low	Negligible		Negligible	Not Significant	Low	Medium	Minor			
		Co19		Low	Low	Negligible		Negligible	Not Significant	Low	Medium	Minor			
		Co24		Low	Low	Negligible		Negligible	Not Significant	Low	Medium	Minor			
		Co34		Negligible	Low	Negligible		Negligible	Not Significant	Negligible	Medium	Negligible		Negligible	Not Significant
Co36															
Displacement of fishing activity into other areas	OAA and Offshore ECC	Co14	Potters	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 13: Commercial Fisheries as it was concluded that the effect was Not Significant .	Minor	Not Significant	Medium	Medium	Moderate	Co51	Minor	Not Significant
		Co9	Handliners and fishers using gear with hooks	Low	Low	Negligible		Negligible	Not Significant	Low	Medium	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 13: Commercial Fisheries as it was concluded that the effect was Not Significant .	Minor	Not Significant
		Co11		Low	Low	Negligible		Negligible	Not Significant	Low	Medium	Minor			
		Co18		Low	Low	Negligible		Negligible	Not Significant	Low	Medium	Minor			
		Co19		Low	Low	Negligible		Negligible	Not Significant	Low	Medium	Minor			
		Co24		Low	Low	Negligible		Negligible	Not Significant	Low	Medium	Minor			
		Co34		Negligible	Low	Negligible		Negligible	Not Significant	Negligible	Medium	Negligible		Negligible	Not Significant
Co36															

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Safety considerations of fishing vessels (via loss or damage to gear due to snagging or entanglement with offshore and floating infrastructure)	OAA and Offshore ECC	Co14	Potters	Low	No change	Negligible		Negligible	Not Significant	Low	No Change	Negligible		Negligible	Not Significant
		Co9	Handliners and fishers using gear with hooks	Low	No change	Negligible		Negligible	Not Significant	Low	No Change	Negligible		Negligible	Not Significant
		Co11		High	No change	Negligible		Negligible	Not Significant	High	No Change	Negligible		Negligible	Not Significant
		Co18		High	No change	Negligible		Negligible	Not Significant	High	No Change	Negligible		Negligible	Not Significant
		Co19		High	No change	Negligible		Negligible	Not Significant	High	No Change	Negligible		Negligible	Not Significant
		Co24		Medium	No change	Negligible		Negligible	Not Significant	Medium	No Change	Negligible		Negligible	Not Significant
		Co34													
Co36															
Interference with fishing activity as a result of increased vessel traffic	OAA and Offshore ECC	Co14	Potters	Medium	Low	Minor		Minor	Not Significant	Medium	Medium	Moderate	Co51	Minor	Not Significant
		Co9	Handliners and fishers using gear with hooks	Low	Low	Negligible		Negligible	Not Significant	Low	Medium	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 13: Commercial Fisheries.	Minor	Not Significant
		Co11		Negligible	Low	Negligible		Negligible	Not Significant	Negligible	Medium	Negligible		Negligible	Not Significant
		Co18		Negligible	Low	Negligible		Negligible	Not Significant	Negligible	Medium	Negligible		Negligible	Not Significant
		Co19		Negligible	Low	Negligible		Negligible	Not Significant	Negligible	Medium	Negligible		Negligible	Not Significant
		Co24		Negligible	Low	Negligible		Negligible	Not Significant	Negligible	Medium	Negligible		Negligible	Not Significant
		Co34		Negligible	Low	Negligible		Negligible	Not Significant	Negligible	Medium	Negligible		Negligible	Not Significant
Co36															
Increased steaming times	OAA and Offshore ECC	Co14	Potters	Low	Low	Negligible		Negligible	Not Significant	Low	Medium	Minor		Minor	Not Significant
		Co9	Handliners and fishers using gear with hooks	Low	Low	Negligible		Negligible	Not Significant	Low	Medium	Minor		Minor	Not Significant
		Co11		Negligible	Low	Negligible		Negligible	Not Significant	Negligible	Medium	Minor		Minor	Not Significant
		Co18		Negligible	Low	Negligible		Negligible	Not Significant	Negligible	Medium	Minor		Minor	Not Significant
		Co19		Negligible	Low	Negligible		Negligible	Not Significant	Negligible	Medium	Minor		Minor	Not Significant
Co24															

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects							
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	
		Co34	Pelagic trawls	Negligible	Low	Negligible		Negligible	Not Significant	Negligible	Medium	Minor		Minor	Not Significant	
		Co36														
Potential impacts on commercially important fish and shellfish resources	OAA and Offshore ECC	Co14	N/A	N/A	N/A	N/A		N/A	Not significant	N/A	N/A	N/A		N/A	Not Significant	
		Co9														
		Co11														
		Co18														
		Co19														
		Co24														
		Co36														
Supply chain opportunities for local fishing vessels	OAA and Offshore ECC	Co14	Potters	Negligible	Negligible	Negligible		Negligible	Not significant	Negligible	Medium	Negligible		Negligible	Not Significant	
		Co9														
		Co11	Handliners and fishers using gear with hooks	Negligible	Negligible	Negligible		Negligible	Not significant	Negligible	Medium	Negligible		Negligible	Not Significant	
		Co18	Scallop dredgers	Medium	Low (Beneficial)	Minor Beneficial		Minor Beneficial	Not significant	Medium	Medium	Moderate Beneficial		Moderate Beneficial	Significant (Beneficial)	
		Co19														
		Co24	Otter trawls	Medium	Low (Beneficial)	Minor Beneficial		Minor Beneficial	Not significant	Medium	Medium	Moderate Beneficial		Moderate Beneficial	Significant (Beneficial)	
		Co36	Pelagic trawls	Medium	Low (Beneficial)	Minor Beneficial		Minor Beneficial	Not significant	Medium	Medium	Moderate Beneficial		Moderate Beneficial	Significant (Beneficial)	

Operation and Maintenance

Loss or restricted access to fishing grounds	OAA and Offshore ECC	Co14	Potters	Medium	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed	Negligible	Not Significant	No potential for Cumulative Impact.					
		Co9													
		Co11	Handliners and fishers using gear with hooks	Low	Negligible	Negligible		Negligible	Not Significant						

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation					Cumulative assessment with other relevant projects							
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
		Co18 Co19 Co24 Co34 Co36	Scallop dredgers	Low	Negligible	Negligible	in Volume ER.A.3, Chapter 13: Commercial Fisheries as it was concluded that the effect was Not Significant .	Negligible	Not Significant	Low	Low	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 13: Commercial Fisheries as it was concluded that the effect was Not Significant .	Negligible	Not Significant
			Otter trawls	Low	Low	Negligible		Negligible	Not Significant						
			Pelagic trawls	Negligible	Negligible	Negligible		Negligible	Not Significant						
			No potential for Significant Cumulative Impact.												
Displacement of fishing activity into other areas	OAA and Offshore ECC	Co14	Potters	Medium	Negligible	Negligible	Negligible	Not significant	Medium	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 13: Commercial Fisheries as it was concluded that the effect was Not Significant .	Negligible	Not Significant	
		Co9	Handliners and fishers using gear with hooks	Low	Low (beneficial)	Negligible	Negligible	Not significant	Low	Low (beneficial)	Negligible		Negligible	Not Significant	
		Co11													
		Co18	Scallop dredgers	Low	Low	Negligible	Negligible	Not significant	Low	Medium	Minor		Minor	Not Significant	
		Co19	Otter trawls	Low	Low	Negligible	Negligible	Not significant	Low	Medium	Minor		Minor	Not Significant	
		Co24													
		Co34	Pelagic trawls	Negligible	Negligible	Negligible	Negligible	Not significant	Negligible	Low	Negligible		Negligible	Not Significant	
Co36												Negligible	Not Significant		
Safety considerations to fishing vessels (via loss or damage to gear due to snagging or entanglement with offshore and floating infrastructure)	OAA and Offshore ECC	Co14	Potters	Low	Negligible	Negligible	Negligible	Not Significant	Low	Negligible	Negligible		Negligible	Not Significant	
		Co9	Handliners and fishers using gear with hooks	Low	Negligible	Negligible	Negligible	Not Significant	Low	Negligible	Negligible		Not Significant		
		Co11													
Co18											Negligible	Not Significant			

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation					Cumulative assessment with other relevant projects							
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
		Co19													
		Co24													
		Co34													
		Co36	Scallop dredgers (Offshore Array)	High	No change	Negligible		Negligible	Not Significant	High	Negligible	Negligible		Negligible	Not Significant
			Scallop dredgers (Offshore ECC)	High	Low	Minor		Minor	Not Significant	High	Low	Minor		Minor	Not Significant
			Otter trawls (Offshore Array)	High	No Change	Negligible		Negligible	Not Significant	High	No change	Negligible		Negligible	Not Significant
			Otter trawls (Offshore ECC)	High	Low	Minor		Minor	Not Significant	High	Low	Minor		Minor	Not Significant
			Pelagic trawls (Offshore Array)	Medium	No Change	Negligible		Negligible	Not Significant	Medium	No change	Negligible		Negligible	Not Significant
			Pelagic trawls (Offshore ECC)	Medium	Negligible	Negligible		Negligible	Not Significant	Medium	Low	Minor		Minor	Not Significant
Interference with fishing activity as a result of increased vessel traffic	OAA and Offshore ECC	Co14	Potters	Medium	Negligible	Negligible		Negligible	Not Significant	Medium	Medium	Moderate	Co51	Minor	Not Significant
		Co9													
		Co11	Handliners and fishers using gear with hooks	Low	Negligible	Negligible		Negligible	Not Significant	Low	Medium	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 13: Commercial Fisheries as it was concluded that the effect was Not Significant .	Minor	Not Significant
		Co18	Scallop dredgers	Negligible	Negligible	Negligible		Negligible	Not Significant	Negligible	Medium	Negligible		Negligible	Not Significant
		Co19													
		Co24	Otter trawls	Negligible	Negligible	Negligible		Negligible	Not Significant	Negligible	Medium	Negligible		Negligible	Not Significant
		Co34	Pelagic trawls	Negligible	Negligible	Negligible		Negligible	Not Significant	Negligible	Medium	Negligible		Negligible	Not Significant
		Co36													
Increased steaming times	OAA and Offshore ECC	Co14	Potters	Low	Negligible	Negligible		Negligible	Not Significant	Low	Low	Negligible		Negligible	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects							
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	
		Co9	Handliners and fishers using gear with hooks	Low	Negligible	Negligible		Negligible	Not Significant	Negligible	Low	Negligible		Negligible	Not Significant	
		Co11		Negligible	Negligible	Negligible		Negligible	Not Significant	Negligible	Low	Negligible		Negligible	Not Significant	
		Co18		Negligible	Negligible	Negligible		Negligible	Not Significant	Negligible	Low	Negligible		Negligible	Not Significant	
		Co19		Negligible	Negligible	Negligible		Negligible	Not Significant	Negligible	Low	Negligible		Negligible	Not Significant	
		Co24		Negligible	Negligible	Negligible		Negligible	Not Significant	Negligible	Low	Negligible		Negligible	Not Significant	
		Co34		Negligible	Negligible	Negligible		Negligible	Not Significant	Negligible	Low	Negligible		Negligible	Not Significant	
Potential impacts on commercially important fish and shellfish resources	OAA and Offshore ECC	Co14	N/A	N/A	N/A	N/A	N/A	Not significant	N/A	N/A	N/A	N/A	N/A	Not Significant		
		Co9														
		Co11														
		Co18														
		Co19														
		Co24														
		Co34														
Supply chain opportunities for local fishing vessels	OAA and Offshore ECC	Co14	Potters	Negligible	Negligible	Negligible		Negligible	Not significant	Negligible	Negligible	Negligible		Negligible	Not Significant	
		Co9	Handliners and fishers using gear with hooks	Negligible	Negligible	Negligible		Negligible	Not significant	Negligible	Negligible	Negligible		Negligible	Not Significant	
		Co11		Negligible	Negligible	Negligible		Negligible	Not significant	Negligible	Negligible	Negligible		Negligible	Not Significant	
		Co18		Scallop dredgers	Medium	Negligible	Negligible		Negligible	Not significant	Medium	Negligible	Negligible		Negligible	Not Significant
		Co19		Otter trawls	Medium	Negligible	Negligible		Negligible	Not significant	Medium	Negligible	Negligible		Negligible	Not Significant
		Co24			Medium	Negligible	Negligible		Negligible	Not significant	Medium	Negligible	Negligible		Negligible	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
		Co34	Pelagic trawls	Medium	Negligible	Negligible		Negligible	Not significant	Medium	Negligible	Negligible		Negligible	Not Significant
		Co36													

23.2.8 Shipping and Navigation

Table 23-8 Summary of Shipping and Navigation Impacts and Mitigation

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Shipping and Navigation															
<i>Construction</i>															
Vessel Displacement	OAA and Offshore ECC	Co11 Co34 Co53	All Vessels	Reasonably Probable	Negligible	Broadly Acceptable	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 14: Shipping and Navigation as it was concluded that the effect was Not Significant.	Broadly Acceptable	Not Significant	Reasonably Probable	Negligible	Broadly Acceptable	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 14: Shipping and Navigation as it was concluded that the effect was Not Significant.	Broadly Acceptable	Not Significant
Increased vessel to vessel collision risk between third-party vessels	OAA and Offshore ECC	Co11 Co31 Co33 Co34 Co53 Co9	All Vessels	Negligible	Serious	Broadly Acceptable		Broadly Acceptable	Not Significant	Negligible	Serious	Broadly Acceptable		Broadly Acceptable	Not Significant
Increased vessel to vessel collision risk between a third-party vessel and a Salamander Project vessel	OAA and Offshore ECC	Co24 Co11 Co36 Co31 Co33 Co34 Co53 Co9	All Vessels	Negligible	Serious	Broadly Acceptable		Broadly Acceptable	Not Significant	Negligible	Serious	Broadly Acceptable		Broadly Acceptable	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Vessel to structure collision risk	OAA	Co53	All Vessels	Remote	Serious	Tolerable and ALARP		Tolerable and ALARP	Not Significant	Negligible	Serious	Broadly Acceptable		Broadly Acceptable	Not Significant
		Co24													
		Co11													
		Co36													
		Co31													
		Co33													
		Co34													
		Co53													
		Co9													
Co18															
Reduced access to local ports	OAA and Offshore ECC	Co11	Vessels and Port Services	Extremely unlikely	Minor	Broadly Acceptable		Broadly Acceptable	Not Significant	Extremely unlikely	Minor	Broadly Acceptable		Broadly Acceptable	Not Significant
		Co18													
Interaction with wet stored subsea infrastructure	OAA	Co36	All Vessels	Extremely Unlikely	Serious	Tolerable	Co38	Tolerable and ALARP	Not Significant	No potential for Cumulative Impact.					
		Co34													
		Co18													
Reduction of emergency response capability	OAA and Offshore ECC	Co11	Emergency Response Resources	Extremely unlikely	Moderate	Broadly Acceptable	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 14: Shipping and Navigation as it was concluded that the effect was Not Significant	Broadly Acceptable	Not Significant	Extremely unlikely	Moderate	Broadly Acceptable		Broadly Acceptable	Not Significant
		Co36													
		Co31													
		Co33													
		Co53													
		Co9													
Co18															

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
<i>Operation and Maintenance</i>															
Vessel Displacement	OAA and Offshore ECC	Co11 Co34 Co53	All Vessels	Remote	Negligible	Broadly Acceptable	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 14: Shipping and Navigation as it was concluded that the effect was Not Significant	Broadly Acceptable	Not Significant	Reasonably Probable	Negligible	Broadly Acceptable	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 14: Shipping and Navigation as it was concluded that the effect was Not Significant.	Broadly Acceptable	Not Significant
Increased vessel to vessel collision risk between third-party vessels	OAA and Offshore ECC	Co11 Co31 Co33 Co34 Co53 Co10	All Vessels	Negligible	Serious	Broadly Acceptable	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 14: Shipping and Navigation as it was concluded that the effect was Not Significant	Broadly Acceptable	Not Significant	Negligible	Serious	Broadly Acceptable	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 14: Shipping and Navigation as it was concluded that the effect was Not Significant.	Broadly Acceptable	Not Significant
Increased vessel to vessel collision risk between a third-party vessel and a Salamander Project vessel	OAA and Offshore ECC	Co24 Co11 Co36 Co31 Co33 Co34 Co53 Co10	All Vessels	Negligible	Serious	Broadly Acceptable		Broadly Acceptable	Not Significant	Negligible	Serious	Broadly Acceptable		Broadly Acceptable	Not Significant
Vessel to structure allision risk	OAA	Co35 Co24 Co11 Co36	All Vessels	Remote	Serious	Tolerable and ALARP		Tolerable and ALARP	Not Significant	Negligible	Serious	Broadly Acceptable		Broadly Acceptable	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
		Co31 Co33 Co34 Co53 Co10 Co18													
Reduced access to local ports	OAA and Offshore ECC	Co11 Co18	Vessels and Port Services	Extremely Unlikely	Minor	Broadly Acceptable			Broadly Acceptable	Not Significant	Extremely unlikely	Minor	Broadly Acceptable		Broadly Acceptable Not Significant
Reduction of under keel clearance from cable protection	OAA and Offshore ECC	Co14 Co34 Co18 Co45	All Vessels	Extremely Unlikely	Moderate	Broadly Acceptable			Broadly Acceptable	Not Significant	Extremely Unlikely	Moderate	Broadly Acceptable		Broadly Acceptable Not Significant
Interaction with subsea infrastructure	OAA	Co34 Co53 Co18 Co45	All Vessels	Extremely Unlikely	Serious	Tolerable	Co37		Tolerable and ALARP	Not Significant	No potential for Cumulative Impact.				
Loss of station	OAA	Co31 Co33 Co18	All Vessels	Negligible	Serious	Broadly Acceptable	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 14: Shipping and Navigation as it was concluded that the effect was Not Significant		Broadly Acceptable	Not Significant					
Anchor interaction with subsea cables	OAA and Offshore ECC	Co14 Co34 Co18	Anchored Vessels	Extremely Unlikely	Moderate	Broadly Acceptable			Broadly Acceptable	Not Significant					

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	
		Co45														
Reduction of emergency response capability	OAA and Offshore ECC	Co11; Co36	Emergency Response Resources	Extremely unlikely	Moderate	Broadly Acceptable			Broadly Acceptable	Not Significant	Extremely unlikely	Moderate	Broadly Acceptable	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 14: Shipping and Navigation as it was concluded that the effect was Not Significant.	Broadly Acceptable	Not Significant
<i>Decommissioning</i>																
Vessel Displacement	OAA and Offshore ECC	Co11 Co34 Co53	All Vessels	Reasonably Probable	Negligible	Broadly Acceptable	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 14: Shipping and Navigation as it was concluded that the effect was Not Significant		Broadly Acceptable	Not Significant	Reasonably Probable	Negligible	Broadly Acceptable	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 14: Shipping and Navigation as it was concluded that the effect was Not Significant.	Broadly Acceptable	Not Significant
Increased vessel to vessel collision risk between third-party vessels	OAA and Offshore ECC	Co11 Co31 Co33 Co34 Co53 Co9 Co10	All Vessels	Negligible	Serious	Broadly Acceptable			Broadly Acceptable	Not Significant	Negligible	Serious	Broadly Acceptable		Broadly Acceptable	Not Significant
Increased vessel to vessel collision risk between a third-party vessel and a Salamander Project vessel	OAA and Offshore ECC	Co24 Co11 Co36	All Vessels	Negligible	Serious	Broadly Acceptable			Broadly Acceptable	Not Significant	Negligible	Serious	Broadly Acceptable		Broadly Acceptable	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
		Co31 Co33 Co34 Co53 Co9 Co10													
Vessel to structure collision risk	OAA	Co35 Co24 Co11 Co36 Co31 Co33 Co34 Co53 Co9 Co10 Co18	All Vessels	Remote	Serious	Tolerable and ALARP	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 14: Shipping and Navigation as it was concluded that the effect was Not Significant	Tolerable and ALARP	Not Significant	Negligible	Serious	Broadly Acceptable		Broadly Acceptable	Not Significant
Reduced access to local ports	OAA and Offshore ECC	Co11 Co18	Vessels and Port Services	Extremely unlikely	Minor	Broadly Acceptable		Broadly Acceptable	Not Significant	Extremely unlikely	Minor	Broadly Acceptable		Broadly Acceptable	Not Significant
Reduction of emergency response capability	OAA and Offshore ECC	Co11 Co36	Emergency Response Resources	Extremely unlikely	Moderate	Broadly Acceptable		Broadly Acceptable	Not Significant	Extremely unlikely	Moderate	Broadly Acceptable		Broadly Acceptable	Not Significant

23.2.9 Aviation and Radar

Table 23-9 Summary of Aviation and Radar Impacts and Mitigation

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Aviation and Radar															
<i>Construction</i>															
Creation of physical obstacle to aircraft operations	OAA	Co31 Co39 Co40 Co41 Co54	MOD, NATS and ATC service providers Low flying operations	Medium	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 15: Aviation and Radar as it was concluded that the effect was Not Significant.	Negligible	Not Significant	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 15: Aviation and Radar as it was concluded that the effect was Not Significant.	Minor	Not Significant
<i>Operation and Maintenance</i>															
Creation of physical obstacle to aircraft operations	OAA	Co31 Co39 Co40 Co41 Co54	MOD, NATS and ATC service providers Low flying operations	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 15: Aviation and Radar as it was concluded that the effect was Not Significant.	Minor	Not Significant	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 15: Aviation and Radar as it was concluded that the effect was Not Significant.	Minor	Not Significant
Wind turbines causing interference on civil and military PSR systems	OAA	Co20	MOD, NATS and ATC service providers	High	Medium	Moderate	Co42 Radar blanking, infill and a TMZ will be implemented, if required, to reduce wind turbine impact to NATS radar systems.	Minor	Not Significant	High	Medium	Moderate	Co42 Radar blanking, infill and a TMZ will be implemented, if required, to reduce wind turbine impact to NATS radar systems.	Minor	Not Significant

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
							Co43 The Salamander Project is in the process of agreeing a solution with the MOD that will mitigate the impact that the Salamander WTGs will have upon the performance of the ADR located at RRH Buchan.					Co43 The Salamander Project is in the process of agreeing a solution with the MOD that will mitigate the impact that the Salamander WTGs will have upon the performance of the ADR located at RRH Buchan.			
Wind turbines causing interference on rainfall radar systems	OAA	Co20	Met Office	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 15: Aviation and Radar as it was concluded that the effect was Not Significant.	Minor	Not Significant	Medium	Low	Minor		Minor	Not Significant
<i>Decommissioning</i>															
Creation of physical obstacle to aircraft operations	OAA	Co31 Co39 Co40 Co41 Co54	MOD, NATS and ATC service providers Low flying operations	Medium	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 15: Aviation and Radar as it was concluded that the effect was Not Significant.	Negligible	Not Significant	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 15: Aviation and Radar as it was concluded that the effect was Not Significant.	Minor	Not Significant

23.2.10 Seascape, Landscape and Visual Amenity

Table 23-10 Summary of Seascape, Landscape and Visual Amenity

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
Seascape, Landscape and Visual Amenity														
<i>Coastal Character</i>														
Impact on characteristics and qualities of coastal (seascape) and landscape receptors during operation and maintenance of the Offshore Array	OAA	Co20	Cairnbulg Point to South Inch (LCCA 4)	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 16: Seascape, Landscape and Visual Impact Assessment as it was concluded that the effect was Not Significant	Minor	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	South Inch to Peterhead (LCCA 5)	Medium-high	Low along the coastline. Negligible within the hinterland.	Moderate / minor along the coastline. Minor within the hinterland.		Moderate / minor along the coastline. Minor within the hinterland.	Not Significant					
		Co20	Peterhead and Sandford Bay (LCCA 6)	Low	Negligible along the urban coastline within Peterhead and north of Boddam, extending up to 1 km from the coast	Negligible		Negligible	Not Significant					
		Co20	Beaches, Dunes and Links – Aberdeenshire (LCT 12)	Medium-high	Low along the coastline north of Peterhead and along the urban coastline within Peterhead	Moderate / minor along the coastline north of Peterhead. Minor along the coastline within Peterhead,		Moderate / minor along the coastline north of Peterhead. Minor along the coastline within Peterhead,	Not Significant					

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
					and north of Boddam, extending up to 1 km from the coast. Negligible south of Rockend. Negligible within the hinterland.	south of Rockend and within the hinterland.		south of Rockend and within the hinterland.							
		Co20	Boddam to Stirling Craig and The Skares to Rockend (LCCA 7)	Medium-high	Negligible	Minor		Minor	Not Significant						
	OAA	Co20	Fragmented Rocky Coast (LCT 11)	Medium-high	Negligible	Minor		Minor	Not Significant						

Inland Landscape Character

Impact on characteristics and qualities of landscape receptors during operation and maintenance of the Offshore Array	OAA	Co20	Coastal Agricultural Plain – Aberdeenshire (LCT 17)	Low	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 16: Seascape, Landscape and Visual Impact Assessment as it was concluded that the effect was Not Significant.	Negligible	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
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Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects				
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
<i>Landscape Designations</i>														
Impact on characteristics and qualities of landscape receptors during operation and maintenance of the Offshore Array	OAA	Co20	North East Aberdeenshire Coast SLA	Medium-high	Low along the coastline. Negligible inland	Moderate / minor along the coastline. Minor inland.	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 16: Seascape, Landscape and Visual Impact Assessment as it was concluded that the effect was Not Significant	Moderate / minor along the coastline. Minor inland.	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
<i>Viewpoints</i>														
Impact on visual receptors during operation and maintenance of the Offshore Array	OAA	Co20	Walkers on the coastal route (VP01 Kinnaird Head Lighthouse, Fraserburgh)	Medium-high	Low	Moderate / minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 16: Seascape, Landscape and Visual Impact Assessment as it was concluded that the effect was Not Significant	Moderate / minor	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	Recreational visitors to the beach and promenade (VP02 Fraserburgh Beach)	Medium-high	Low	Moderate / minor		Moderate / minor	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	Residents (VP03 Inverallochy)	Medium-high	Low	Moderate / minor		Moderate / minor	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	Recreational visitors to the beach and residents (VP04 St Combs)	High	Low	Moderate		Moderate	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	Recreational visitors to the beach and walkers on the coastal path (VP05 Rattray Head)	High	Medium-low	Moderate		Moderate	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	Recreational visitors to the beach and walkers	High	Medium-low	Moderate		Moderate	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation					Cumulative assessment with other relevant projects							
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
			on the coastal path (VP06 Scotstown Head)												
		Co20	Recreational visitors to the beach and promenade and residents (VP07 Peterhead, Gadle Braes)	Medium-high	Medium-low	Moderate			Moderate	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	Residents, recreational visitors to the beach (VP08 Peterhead Bay (South Road))	Medium	Low	Minor			Minor	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	Tower visitors and recreational visitors (VP09 Peterhead, Reform Tower)	Medium	Low	Minor			Minor	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	Residents and recreational visitors (VP10 Boddam)	Medium-high	Low	Moderate / minor			Moderate / minor	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	Residents and walkers (VP11 Stirling Hill)	Medium-high	Low	Moderate / minor			Moderate / minor	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	Walkers (VP12 Bulls of Buchan)	High	Low	Moderate			Moderate	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	Castle visitors (VP13 Slains Castle)	High	Low	Moderate			Moderate	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	Residents (VP14 Cruden Bay (East Sandend))	Medium-high	Low	Moderate / minor			Moderate / minor	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	Walkers and visitors to Forvie NNR (VP15 Forvie National Nature Reserve, near Collieston)	Medium-high	Negligible	Minor			Minor	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects				
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
<i>Night Viewpoints</i>														
Impact on visual receptors during operation and maintenance of the Offshore Array	OAA	Co53 Co54	Residents and recreational visitors to the beach and promenade at VP03 Inverallochy	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 16: Seascape, Landscape and Visual Impact Assessment as it was concluded that the effect was Not Significant	Minor	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
	OAA	Co53 Co54	Residents and recreational visitors to the beach and promenade at VP07 Peterhead, Gadle Braes	Medium	Low	Minor		Minor	Not Significant					
<i>Settlements</i>														
Impact on visual receptors during operation and maintenance of the Offshore Array	OAA	Co20	Peterhead	Medium	Low along the coastline. Negligible within the town's interior.	Moderate / minor along the coastline. Minor within the town's interior.	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 16: Seascape, Landscape and Visual Impact Assessment as it was concluded that the effect was Not Significant	Moderate / minor along the coastline. Minor within the town's interior.	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	Fraserburgh	Medium-high	Low along the coastline. Negligible within the town's interior.	Moderate / minor along the coastline. Minor within the town's interior.		Moderate / minor along the coastline. Minor within the town's interior.						
		Co20	Inverallochy	Medium-high	Low along the coastline. Negligible within the hinterland.	Moderate / minor along the coastline.		Moderate / minor along the coastline. Minor within the hinterland.						

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
						Minor within the hinterland.									
		Co20	St Combs	Medium-high	Low along the coastline. Negligible within the village's interior.	Moderate / minor along the coastline. Minor within the village's interior.			Moderate / minor along the coastline. Minor within the village's interior.		Any potential additional cumulative effects are unlikely to be significant.				
		Co20	Boddam	Medium-high	Low along the coastline. Negligible within the village's interior.	Moderate / minor along the coastline. Minor within the hinterland.			Moderate / minor along the coastline. Minor within the village's interior.		Any potential additional cumulative effects are unlikely to be significant.				
<i>Long-Distance Recreational Routes</i>															
Impact on visual receptors during operation and maintenance of the Offshore Array	OAA	Co20	Formartine and Buchan Way	Medium-high	Negligible	Minor			Minor	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
<i>Major Road Routes</i>															
Impact on visual receptors during operation and maintenance of the Offshore Array	OAA	Co20	A90	Medium	Negligible to zero	Minor to No Effect	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 16: Seascape, Landscape and Visual Impact Assessment as it was concluded that the effect was Not Significant		Minor to No Effect	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	A950	Medium	Negligible to zero	Minor to No Effect			Minor to No Effect		Any potential additional cumulative effects are unlikely to be significant.				

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects				
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
<i>Recreational Routes</i>														
Impact on visual amenity including impacts of turbine lighting at night during operation and maintenance of the Offshore Array	OAA	Co20	Aberdeenshire Coastal Trail	Medium-high	Negligible to zero	Minor to No Effect	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 16: Seascape, Landscape and Visual Impact Assessment as it was concluded that the effect was Not Significant	Minor to No Effect	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				
		Co20	North East 250	Medium-high	Negligible to zero	Minor to No Effect	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed as it was concluded that the effect was Not Significant.	Minor to No Effect	Not Significant					
<i>Offshore Receptors</i>														
Impact on visual amenity during operation and maintenance of the Offshore Array	OAA	Co20	Aberdeen to Orkney route	Medium-low	Medium-low along the closest parts of the route. Low over the majority of the wider and more distant parts of the route	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 16: Seascape, Landscape and Visual Impact Assessment as it was concluded that the effect was Not Significant	Minor	Not Significant	Any potential additional cumulative effects are unlikely to be significant.				

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
		Co20	Aberdeen and Shetland route	Medium-low	Medium along the closest parts of the route. Medium-low to low over the majority of the wider and more distant parts of the route.	Moderate / Minor along the closest parts of the route. Minor over the majority of the wider and more distant parts of the route.		Moderate / Minor	Not Significant						

23.2.11 Marine Archaeology and Cultural Heritage

Table 23-11 Summary of Marine Archaeology and Cultural Heritage Impacts and Mitigations

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects				
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
Marine Archaeology and Cultural Heritage														
<i>Construction</i>														
Construction activities resulting in sub-seabed impacts, including site preparation, cable burial, foundations and anchoring.	OAA and Offshore ECC	Co21	Submerged palaeo-environmental remains	Medium	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 17: Marine Archaeology and Cultural Heritage as it was concluded that the effect was Not Significant .	Minor	Not significant	Cumulative effects for Marine Archaeology and Cultural Heritage have been assessed by defined groups based on direct physical impacts, indirect physical impacts and settings impacts, and evaluated below.				
	OAA and Offshore ECC	Co22	Potential submerged prehistoric remains – <i>in situ</i>	High	Negligible	Negligible		Negligible	Not significant					
	OAA and Offshore ECC	Co23	Potential submerged prehistoric remains – redeposited	Medium	Negligible	Minor		Minor	Not significant					
	OAA and Offshore ECC		Known wrecks and high potential geophysical anomalies (as identified through the additional survey)	High	No change	No change		No change	Not significant					
	OAA and Offshore ECC		Medium potential geophysical anomalies	Medium	No change	No change		No change	Not significant					
	OAA and Offshore ECC		Low potential geophysical anomalies	Low	Low	Minor		Minor	Not significant					
	OAA and Offshore ECC		Potential maritime and aviation remains	High	No change	No change		No change	Not significant					
	OAA and Offshore ECC		Potential intertidal sites	Low to high	Negligible	Negligible		Negligible	Not significant					
	OAA and Offshore ECC		Buried magnetic anomalies	Negligible to high	Negligible	Negligible		Negligible	Not significant					
	OAA and Offshore ECC								Not significant					

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects				
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
<i>Operation and Maintenance</i>														
O&M activities which result in impacts beyond extent of construction impacts.	OAA and Offshore ECC	Co21	Wrecks, high and medium potential geophysical anomalies	Medium to high	No change	No change	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 17: Marine Archaeology and Cultural Heritage as it was concluded that the effect was Not Significant .	No change	Not significant	Cumulative effects for Marine Archaeology and Cultural Heritage have been assessed by defined group based on direct physical impacts, indirect physical impacts and settings impacts, and evaluated below.				
	OAA and Offshore ECC	Co22		Medium to high	Negligible	Negligible		Negligible	Not significant					
	OAA and Offshore ECC	Co23		Potential prehistoric remains (<i>in situ</i> or redeposited) and potential palaeo-environmental evidence	Low to high	Negligible		Negligible	Negligible		Not significant			
	OAA and Offshore ECC			Potential intertidal sites	Negligible to high	Negligible		Negligible	Negligible		Not significant			
Operation and Maintenance of Offshore Development Area: Setting Impacts	OAA	N/A	LB3042 Rattray Head Lighthouse, LB16367 Buchan Ness Lighthouse and LB31888 Kinnaird Head Lighthouse, Fraserburgh	Medium	Low	Minor beneficial		Minor beneficial	Not significant					
	OAA	N/A	LB39733 Peterhead Harbour and LB31879 Harbour Works Office, Fraserburgh. LB39733 Peterhead Harbour and LB31879 Harbour Works Office, Fraserburgh.	Medium	Low	Minor beneficial		Minor beneficial	Not significant					
		N/A	SM11315, SM11314, SM11320, SM11313, SM11316, SM11317,	Medium to Low	Negligible/None	Negligible/None		Negligible	Not significant					

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
			SM11318, SM11319, SM11307, SM11308, SM11311, SM5622, SM116, SM97, SM3259, SM3252, SM90344 CA425, CA426, CA427, CA417, CA428, CA414, CA663 LB16536, LB3042, LB3038, LB3039, LB3040, LB3041, LB3036, LB39733, LB39734, LB39735, LB39736, LB39737, LB39847, LB16362, LB16364 LB16365, LB16367, LB16366, LB3060, LB3061, LB3062, LB3074, LB31888, LB31879, LB31901												
<i>Decommissioning</i>															
Decommissioning activities which result in impacts beyond extent of construction or O&M impacts.	OAA and Offshore ECC	Co21	Wrecks, high and medium potential geophysical anomalies	Medium to high	No change	No change	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 17: Marine Archaeology and Cultural Heritage as it was concluded that the effect was Not Significant .	No change	Not significant	Cumulative effects for Marine Archaeology and Cultural Heritage have been assessed by defined group based on direct physical impacts, indirect physical impacts and settings impacts, and evaluated below.					
	OAA and Offshore ECC	Co23	Potential prehistoric remains (<i>in situ</i> or redeposited) and potential palaeo-environmental evidence	Medium to high	Negligible	Negligible	Negligible	Not significant							
	OAA and Offshore ECC		Low potential geophysical anomalies, magnetic anomalies and unidentified	Negligible to high	Negligible	Negligible	Negligible	Not significant							

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
			maritime or aviation remains												
	OAA and Offshore ECC		Potential intertidal sites	Low to high	Negligible	Negligible			Negligible	Not significant					

Cumulative Effects Assessment

Direct Physical Impacts	OAA and Offshore ECC	Co21 Co22 Co23	Offshore Development impacts in isolation have been assessed separately and included above.	Negligible to High	No change to Low	Negligible or Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 17: Marine Archaeology and Cultural Heritage as it was concluded that the effect was Not Significant .	Negligible	Not Significant
Indirect Physical Impacts	OAA and Offshore ECC	Co21 Co22 Co23		Negligible to High	No change to Low	Negligible or Minor		Negligible	Not Significant
Setting Impacts	OAA and Offshore ECC	N/A		Negligible to High	No change to Low	Minor beneficial		Minor Beneficial	Not Significant

23.2.12 Other Users of the Marine Environment

Table 23-12 Summary of Other Marine Users of the Marine Environment Impacts and Mitigation

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects									
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms				
Other Users of the Marine Environment																			
<i>Construction</i>																			
Impact C1: Obstruction of marine renewable energy activities due to the presence of safety zones and construction vessels during installation activities	Offshore ECC and OAA	Co9	Hywind Scotland	High	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 18: Other Users of the Marine Environment as it was concluded that the effect was Not Significant .	Minor	Not Significant	Cumulative effects for Other Users of the Marine Environment have been assessed separately for individual receptors and combined receptor groups and evaluated below.									
		Co11																	
Impact C2: Obstruction of other electricity cable installation and/or maintenance activities due to the presence of safety zones and construction vessels during installation activities	Offshore ECC and OAA	Co18																	
		Co19	TAMPNET Fibre Optic	High	Negligible	Negligible	Negligible	Not Significant											
		Co24																	
		Co25																	
Impact C3: Obstruction of oil and gas activities due to the presence of safety zones and construction vessels during installation activities	Offshore ECC and OAA	Co26	Oil and gas leasing rounds and licenced blocks	Low	Low	Negligible	Negligible	Not Significant											
		Co27							Gas pipeline crossings						High	Low	Minor	Minor	Not Significant
									Other gas pipelines						High	Low	Minor	Minor	Not Significant
									Oil pipelines						High	Negligible	Negligible	Negligible	Not Significant
Impact C4: Obstruction of recreational and tourism activities	Offshore ECC and OAA	Co27	Recreational Users	Low	Low	Negligible	Negligible	Not Significant											
		Ports and Harbours	Medium	Low	Minor	Minor	Not Significant												

Operation and Maintenance

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects				
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
Impact O&M1: Obstruction of marine renewable energy activities due to the presence of safety zones and maintenance vessels during the operation and maintenance phase	Offshore ECC and OAA	Co11	Hywind Scotland	High	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed, as it was concluded that the effect was Not Significant .	Minor	Not Significant	Cumulative effects for Other Users of the Marine Environment have been assessed separately for individual receptors and combined receptor groups and evaluated below.				
		Co18												
		Co19												
		Co24												
Impact O&M2: Obstruction of electricity cable installation and maintenance activities due to the presence of safety zones and maintenance vessels during the operation and maintenance phase	Offshore ECC and OAA	Co25	TAMPNET Fibre Optic	High	Negligible	Negligible		Negligible	Not Significant					
		Co26												
		Co27												
Impact O&M3: Obstruction of oil and gas activities due to the presence of safety zones and construction vessels during installation activities	Offshore ECC and OAA		Oil and gas leasing rounds and licenced blocks	Low	Negligible	Negligible		Negligible	Not Significant					
			Gas pipeline crossing	High	Low	Minor		Minor	Not Significant					
			Other Gas pipelines	High	Negligible	Negligible		Negligible	Not Significant					
			Oil pipelines	High	Negligible	Negligible		Negligible	Not Significant					
Impact O&M4: Obstruction of recreational and tourism activities due to the presence of safety zones and construction vessels during the operation and maintenance phase	Offshore ECC and OAA		Recreational Users	Low	Negligible	Negligible		Negligible	Not Significant					
			Ports and Harbours	Medium	Negligible	Negligible		Negligible	Not Significant					
<i>Decommissioning</i>														
Impact D2: Obstruction of electricity cable installation and maintenance activities due to the presence of safety zones and vessels during decommissioning activities	Offshore ECC and OAA	Co11	TAMPNET Fibre Optic	High	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter	Negligible	Not Significant	Cumulative effects for Other Users of the Marine Environment have been assessed separately for individual receptors and combined receptor groups and evaluated below.				
		Co18												
		Co19												

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects											
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms					
Impact D3: Obstruction of oil and gas activities due to the presence of safety zones and vessels during decommissioning activities	Offshore ECC and OAA	Co24	Oil and gas leasing rounds and licenced blocks	Low	Low	Negligible	18: Other Users of the Marine Environment as it was concluded that the effect was Not Significant .	Negligible	Not Significant											
		Co25																		
		Co26													Gas pipeline crossing	High	Low	Minor	Minor	Not Significant
		Co27													Other Gas pipelines	High	Low	Minor	Minor	Not Significant
		Co28													Oil pipelines	High	Negligible	Negligible	Negligible	Not Significant
															Recreational Users	Low	Negligible	Negligible	Negligible	Not Significant
Impact D4: Obstruction of recreational and tourism activities due to the presence of safety zones and vessels during decommissioning activities	Offshore ECC and OAA		Ports and Harbours	Medium	Low	Minor	Minor	Not Significant												

Cumulative Effect Assessment on individual receptors during Construction

Cumulative Impact C1: Obstruction of marine renewable energy activities due to the presence of safety zones and construction vessels during installation activities	Offshore ECC	Co9	Green Volt Offshore Windfarm Indicative ECC	Offshore Development impacts in isolation have been assessed separately and included above.	Low	High	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 18: Other Users of the Marine Environment as it was concluded that the effect was Not Significant .	Minor	Not Significant		
		Co11										
		Co18			Cenos Floating Offshore Wind Farm Indicative ECC	Low	High		Minor	Minor	Not Significant	
		Co19										
		Co24				MarramWind Indicative ECC	Low		High	Minor	Minor	Not Significant
		Co25										
		Co26				Muir Mhòr Indicative ECC	Low		High	Minor	Minor	Not Significant
Co27	Buchan Floating Offshore Wind Indicative ECC	Low	High	Minor	Minor	Not Significant						
Cumulative Impact C2: Obstruction of other electricity cable	Offshore ECC	Co9	Eastern Green Link 2		Low	High	Minor		Minor	Not Significant		

Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation					Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
installation and/or maintenance activities due to the presence of safety zones and construction vessels during installation activities		Co11 Co18 Co19 Co24 Co25 Co26 Co27	CNSE						Low	High	Minor		Minor	Not Significant
			NorthConnect						Low	High	Minor		Minor	Not Significant

Cumulative Effect Assessment on individual receptors during Operation and Maintenance

Cumulative Impact O&M1: Obstruction of marine renewable energy activities due to the presence of safety zones and maintenance vessels during the operation and maintenance phase	Offshore ECC	Co11	Green Volt Offshore Windfarm Indicative ECC	Offshore Development impacts in isolation have been assessed separately and included above.	Low	High	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 18: Other Users of the Marine Environment as it was concluded that the effect was Not Significant .	Minor	Not Significant					
		Co18								Minor	Not Significant				
		Co19	Cenos Floating Offshore Wind Farm Indicative ECC		Low	High	Minor			Minor	Not Significant				
		Co24													
		Co25	MarramWind Indicative ECC		Low	High	Minor			Minor	Not Significant				
		Co26													
		Co27	Muir Mhòr Indicative ECC		Low	High	Minor			Minor	Not Significant				
			Buchan Floating Offshore Wind Indicative ECC							Low	High	Minor		Minor	Not Significant

Cumulative Effects Assessment on Combined Receptor Groups during Construction

Cumulative Impact C1: Obstruction of marine renewable energy activities due to the presence of safety zones and construction vessels during installation activities	Offshore Development impacts in isolation have been assessed separately and included above.	High	Low	Minor	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation	Minor	Not Significant
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Project Activity and Impact	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation					Cumulative assessment with other relevant projects						
			Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
Cumulative Impact C2: Obstruction of other electricity cable installation and/or maintenance activities due to the presence of safety zones and construction vessels during installation activities									High	Low	Minor	listed in Volume ER.A.3, Chapter 18: Other Users of the Marine Environment as it was concluded that the effect was Not Significant .	Minor	Not Significant
Cumulative Impact C4: Obstruction of recreational and tourism activities								Low	Low	Negligible	Negligible		Not Significant	
Cumulative Effects Assessment on Combined Receptor Groups during Operation and Maintenance														
Cumulative Impact O&M1: Obstruction of marine renewable energy activities due to the presence of safety zones and maintenance vessels during the Operation and Maintenance phase			Offshore Development impacts in isolation have been assessed separately and included above.						High	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 18: Other Users of the Marine Environment as it was concluded that the effect was Not Significant .	Negligible	Not Significant

23.2.13 Socio-economics, Tourism and Recreation

Table 23-13 Summary of Socio-economic, Tourism and Recreation Impacts and Mitigation

Project Activity and Impact	Study Area	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects				
				Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
Socio-economics, Tourism and Recreation															
<i>Construction</i>															
Socio-economic impacts: Employment during the construction phase	Neighbourhood: Buchan	OAA, Offshore ECC, Intertidal ECC, Onshore Substation	Co57	Residents / Businesses	Low	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond embedded mitigation listed in Volume ER.A.3, Chapter 19: Socio-economics, Tourism and Recreation as it was concluded that the effect was Not Significant	Negligible	Not-Significant	It is currently difficult to accurately measure the cumulative effect of construction on socio-economic factors. The cumulative significance of effect is not anticipated to be different from the project alone, therefore the assessment concludes that the cumulative effect is expected to be Not Significant in EIA terms.				
	Local: Aberdeen City and Aberdeenshire		Co57		Low	Negligible	Negligible		Negligible	Not-Significant					
	National: Scotland		Co57		Low	Negligible	Negligible		Negligible	Not-Significant					
	National: UK		Co57		Low	Negligible	Negligible		Negligible	Not-Significant					
Socio-economic impacts: Economic productivity (GVA) during the construction phase	Neighbourhood: Buchan	OAA, Offshore ECC, Intertidal ECC, Onshore Substation	Co49	Residents / Businesses	Medium	Negligible	Minor Beneficial		Minor Beneficial	Not-Significant					
	Local: Aberdeen City and Aberdeenshire		Co49		Medium	Negligible	Minor Beneficial		Minor Beneficial	Not-Significant					
	National: Scotland		Co49		Low	Negligible	Negligible		Negligible	Not-Significant					
	National: UK		Co49		Low	Negligible	Negligible		Negligible	Not-Significant					
Wider socio-economic effects: Commercial Fisheries Agriculture Tourism	Neighbourhood: Buchan	OAA, Offshore ECC, Intertidal ECC, Onshore Substation	N/A	Businesses, economy	Medium	Negligible	Negligible		Negligible	Not-Significant	It is currently difficult to accurately measure the cumulative effect of construction on wider socio-economic factors. The cumulative significance of effect is not anticipated to be different from the project alone, therefore the assessment concludes that the cumulative effect is expected to be Not Significant in EIA terms.				
	Local: Aberdeen City and Aberdeenshire		N/A		Negligible	Negligible	Negligible		Negligible	Not-Significant					
	National: Scotland		N/A		Negligible	Negligible	Negligible		Negligible	Not-Significant					

Project Activity and Impact	Study Area	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation						Cumulative assessment with other relevant projects						
				Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
	National: UK		N/A		Negligible	Negligible	Negligible		Negligible	Not-Significant	No potential Significant Cumulative Impacts.					
Socio-cultural effects: Population change	Neighbourhood: Buchan	OAA, Offshore Intertidal ECC, Onshore Substation	N/A	Residents / Salamander Project workers	High	Negligible	Negligible		Negligible	Not-Significant						
	Local: Aberdeen City and Aberdeenshire		N/A		High	Negligible	Negligible		Negligible	Not-Significant						
	National: Scotland		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant						
	National: UK		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant						
Socio-cultural effects: Demand for housing during the construction phase	Neighbourhood: Buchan	OAA, Offshore Intertidal ECC, Onshore Substation	N/A	Residents / Salamander Project workers	High	Low	Minor		Negligible	Not-Significant						
	Local: Aberdeen City and Aberdeenshire		N/A		High	Low	Minor		Negligible	Not-Significant						
	National: Scotland		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant						
	National: UK		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant						
Socio-cultural effects: Demand for healthcare during the construction phase	Neighbourhood: Buchan	OAA, Offshore Intertidal ECC, Onshore Substation	N/A	Residents / Salamander Project workers	High	Negligible	Negligible		Negligible	Not-Significant						
	Local: Aberdeen City and Aberdeenshire		N/A		High	Negligible	Negligible		Negligible	Not-Significant						
	National: Scotland		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant						
	National: UK		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant						

Project Activity and Impact	Study Area	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects				
				Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
Socio-cultural effects: Demand for education during the construction phase	Neighbourhood: Buchan	OAA, Offshore ECC, Intertidal	N/A	Residents / Salamander Project workers	High	Negligible	Negligible		Negligible	Not-Significant					
	Local: Aberdeen City and Aberdeenshire	ECC, Onshore Substation	N/A		High	Negligible	Negligible		Negligible	Not-Significant					
	National: Scotland		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant					
	National: UK		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant					
Recreation and tourism effects: Visitor access and experience during the construction phase	Neighbourhood: Buchan & NE SMR	OAA, Offshore ECC, Intertidal	N/A	Tourists / recreational users	Medium	Low	Minor		Minor	Not-Significant	It is currently difficult to accurately measure the cumulative effect of construction on recreation and tourism. The cumulative significance of effect is not anticipated to be different from the project alone, therefore the assessment concludes that the cumulative effect is expected to be Not Significant in EIA terms.				
	Local: Aberdeen City and Aberdeenshire	ECC, Onshore Substation	N/A		Medium	Low	Minor		Minor	Not-Significant					
	National: Scotland		N/A		Low	Negligible	Negligible		Negligible	Not-Significant					
	National: UK		N/A		Low	Negligible	Negligible		Negligible	Not-Significant					
Recreation and tourism effects: Effect on tourist accommodation during the construction phase	Neighbourhood: Buchan & NE SMR	OAA, Offshore ECC, Intertidal	N/A	Tourists / recreational users / workers	Medium	Low	Minor beneficial		Minor beneficial	Not-Significant					
	Local: Aberdeen City and Aberdeenshire	ECC, Onshore Substation	N/A		Medium	Low	Minor beneficial		Minor beneficial	Not-Significant					
	National: Scotland		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant					
	National: UK		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant					

Project Activity and Impact	Study Area	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects				
				Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
<i>Operation and Maintenance</i>															
Socio-economic impacts: Employment during the operation and maintenance phase	Neighbourhood: Buchan	OAA, Offshore ECC, Intertidal	N/A	Residents / Businesses	Medium	Negligible	Negligible	No additional mitigation measures have been identified for this effect above and beyond embedded mitigation listed in Volume ER.A.3, Chapter 19: Socio-economics, Tourism and Recreation as it was concluded that the effect was Not Significant	Negligible	Not-Significant	No potential Significant Cumulative Impacts.				
	Local: Aberdeen City and Aberdeenshire	ECC, Onshore Substation	N/A		Medium	Negligible	Negligible		Negligible	Not-Significant					
	National: Scotland		N/A		Low	Negligible	Negligible		Negligible	Not-Significant					
	National: UK		N/A		Low	Negligible	Negligible		Negligible	Not-Significant					
Socio-economic impacts: Economic productivity (GVA) during the Operation and Maintenance phase	Neighbourhood: Buchan	OAA, Offshore ECC, Intertidal	Co49	Residents / Businesses	Medium	Negligible	Negligible		Negligible	Not-Significant					
	Local: Aberdeen City and Aberdeenshire	ECC, Onshore Substation	Co49		Medium	Negligible	Negligible		Negligible	Not-Significant					
	National: Scotland		Co49		Low	Negligible	Negligible		Negligible	Not-Significant					
	National: UK		Co49		Low	Negligible	Negligible		Negligible	Not-Significant					
Wider socio-economic effects: Commercial Fisheries Agriculture Tourism	Neighbourhood: Buchan	OAA, Offshore ECC, Intertidal	N/A	Businesses, economy	Negligible	Negligible	Negligible		Negligible	Not-Significant					
	Local: Aberdeen City and Aberdeenshire	ECC, Onshore Substation	N/A		Negligible	Negligible	Negligible		Negligible	Not-Significant					
	National: Scotland		N/A		Negligible	Negligible	Negligible		Negligible	Not-Significant					
	National: UK		N/A		Negligible	Negligible	Negligible		Negligible	Not-Significant					

Project Activity and Impact	Study Area	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects				
				Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
Socio-cultural effects: Population change	Neighbourhood: Buchan	OAA, Offshore ECC, Intertidal	N/A	Residents / Salamander Project workers	High	Negligible	Negligible		Negligible	Not-Significant					
	Local: Aberdeen City and Aberdeenshire	ECC, Onshore Substation	N/A		High	Negligible	Negligible		Negligible	Not-Significant					
	National: Scotland		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant					
	National: UK		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant					
Socio-cultural effects: Demand for housing during the operation and maintenance phase	Neighbourhood: Buchan	OAA, Offshore ECC, Intertidal	N/A	Residents / Salamander Project workers	High	Negligible	Negligible		Negligible	Not-Significant					
	Local: Aberdeen City and Aberdeenshire	ECC, Onshore Substation	N/A		High	Negligible	Negligible		Negligible	Not-Significant					
	National: Scotland		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant					
	National: UK		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant					
Socio-cultural effects: Demand for healthcare during the operation and maintenance phase	Neighbourhood: Buchan	OAA, Offshore ECC, Intertidal	N/A	Residents / Salamander Project workers	High	Negligible	Negligible		Negligible	Not-Significant					
	Local: Aberdeen City and Aberdeenshire	ECC, Onshore Substation	N/A		High	Negligible	Negligible		Negligible	Not-Significant					
	National: Scotland		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant					
	National: UK		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant					
Socio-cultural effects:	Neighbourhood: Buchan	OAA, Offshore ECC, Intertidal	N/A		High	Negligible	Negligible		Negligible	Not-Significant					

Project Activity and Impact	Study Area	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects				
				Receptor	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
Demand for schools during the operation and maintenance phase	Local: Aberdeen City and Aberdeenshire	ECC, Onshore ECC, Onshore Substation	N/A	Residents / Salamander Project workers	High	Negligible	Negligible		Negligible	Not-Significant					
	National: Scotland		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant					
	National: UK		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant					
Recreation and tourism effects: Access and experience during the operation and maintenance phase	Neighbourhood: Buchan & NE SMR	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation	N/A	Tourists / recreational users	Medium	Negligible	Negligible		Negligible	Not-Significant					
	Local: Aberdeen City and Aberdeenshire		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant					
	National: Scotland		N/A		Low	Negligible	Negligible		Negligible	Not-Significant					
	National: UK		N/A		Low	Negligible	Negligible		Negligible	Not-Significant					
Recreation and tourism effects: Effects on tourist accommodation during the operation and maintenance phase	Neighbourhood: Buchan & NE SMR	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation	N/A	Tourists / recreational users and Salamander Project workers	Medium	Negligible	Negligible		Negligible	Not-Significant					
	Local: Aberdeen City and Aberdeenshire		N/A		Medium	Negligible	Negligible		Negligible	Not-Significant					
	National: Scotland		N/A		Low	Negligible	Negligible		Negligible	Not-Significant					
	National: UK		N/A		Low	Negligible	Negligible		Negligible	Not-Significant					

23.2.14 Climate Change and Carbon

Table 23-14 Summary of Climate Change Impacts and Mitigation

Receptor	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects				
			Climate Change Variable	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect
Climate Change and Carbon														
<i>Operation and Maintenance</i>														
Assets of the Salamander Project	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	Co29	Storms	Medium	Low	Minor: Assets will likely be exposed to storm events but are designed to withstand storm conditions.	No additional mitigation measures required	Minor	Not significant	GHG emissions result in impacts on a global scale, such as contributions to climate change, and therefore any potential impacts are by their nature cumulative. IEMA guidance (2022) supports the principle that a GHG assessment is cumulative in its approach, and there is no requirement for additional assessments of individual specific projects.				
	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	Co29	Extreme temperature events		Low	Minor: Assets will likely be exposed to extreme temperature events if/when they occur. Extreme weather could damage assets and require maintenance activities. Maintenance activities are expected to occur across the lifecycle of the Salamander Project.		Minor	Not significant					
	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	Co29	Sea level rise/flooding		Low	Minor: Changes to sea conditions may result in increased wave height, or risk of flooding to assets. Scale of events are expected to be similar to existing climate events to which the Salamander Project design will appropriately addresses.		Minor	Not significant					

Receptor	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Climate Change Variable	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	Co29	Landslides/unstable ground in coastal areas		Low	Minor: Unstable land may impact the viability of asset infrastructure, particularly in areas such as the export cable landfall. However, Salamander Project design will consider extensively the suitability of ground conditions.		Minor	Not significant						
	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	Co29	Changes to temperature (averages)		Negligible	Negligible: Changing temperatures over an average during the Salamander Project lifecycle will not change to a level that will present a risk to assets, which will be designed to operate within predicted temperature averages.		Negligible	Not significant						
	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	Co29	Increased rainfall		Negligible	Negligible: Changing rainfall averages will not change to a level within the Salamander Project lifecycle that will present a risk to assets, which will be designed to operate within predicted rainfall averages.		Negligible	Not significant						

Receptor	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Climate Change Variable	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Energy generation (note, this is not an evaluation of the project's energy generating capacity over its lifecycle in response to anticipated climate changes, but rather an analysis of how energy generation might respond, i.e. its sensitivity as a receptor, to potential extreme future climatic conditions.)	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	Co29	Storms	Medium	Low	Minor: Changes in wind speeds and storm likelihood are challenging to predict in future baselines. However, generation of energy through wind power is limited by the automatic cut-out of the WTGs when excessive wind speeds are reached.		Minor	Not significant						
	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	Co29	Extreme temperature events		Low	Minor: Assets will likely be exposed to extreme weather events if/when they occur. Extreme weather could damage assets and require maintenance activities, that will hinder energy generation. Maintenance activities are expected to occur across the lifecycle of the Salamander Project.		Minor	Not significant						
	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	Co29	Sea level rise/flooding		Low	Minor: Overall changes in sea level, including changes to wave height or occurrence, are not expected to occur on a scale (across an average) that will inhibit energy generation.		Minor	Not significant						
	OAA, Offshore ECC, Intertidal ECC, Onshore	Co29	Landslides/unstable ground in coastal areas		Low	Minor: Unstable land may impact the viability of asset infrastructure,		Minor	Not significant						

Receptor	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Climate Change Variable	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
	ECC, Onshore Substation and EBI					particularly in areas such as the export cable landfall. However, Salamander Project design will consider extensively the suitability of ground conditions.									
	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	Co29	Changes to temperature (averages)		Negligible	Negligible: Changing temperatures over an average will not change to a level within the Salamander Project lifecycle that will present a risk to energy generation, as turbines for the Salamander Project will be designed to operate within predicted temperature averages.			Negligible	Not significant					
	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	Co29	Increased rainfall		Negligible	Negligible: Changing rainfall averages will not change to a level within the Salamander Project lifecycle that will present a risk to energy generation, as turbines for the Salamander Project will be designed to operate within predicted rainfall averages.			Negligible	Not significant					
Human health and safety	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore	Co29	Storms	Medium	Low	Minor: Exposure of workforce to storm events has the potential to impact health and			Minor	Not significant					

Receptor	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Climate Change Variable	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
	Substation and EBI					safety of individuals and a workforce. The risk of storms is currently present and adherence to relevant health and safety legislations will manage a safe working environment, which includes not working in unsuitable conditions.									
	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	Co29	Extreme temperature events		Low	Minor: Exposure of workforce to extreme temperatures, either summer heatwaves or freezing conditions, has potential to impact health and safety, including an increased risk of accidents. The risk of extreme temperature events is currently present and adherence to relevant health and safety legislations will manage a safe working environment, which includes not working in unsuitable conditions.			Minor	Not significant					
	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	Co29	Sea level rise/flooding		Low	Minor: Sea condition changes over the lifecycle of the Salamander Project are not expected to be at a level where significant changes will occur that			Minor	Not significant					

Receptor	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Climate Change Variable	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
						will impact the workforce. The risk of floods is currently present and adherence to relevant health and safety legislations will manage a safe working environment, which includes not working in unsuitable conditions.									
	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	N/A	Landslides/unstable ground in coastal areas		Low	Minor: The risk of landslides/unstable ground is currently present and adherence to relevant health and safety legislations will manage a safe working environment, which includes not working in unsuitable conditions. If future baselines change, working practices will be consistently reviewed to address changing conditions.		Minor	Not significant						
	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	N/A	Changes to temperature (averages)		Negligible	Negligible: Changing temperature averages will not change to a level within the Salamander Project lifecycle that will present a risk to health and safety conditions outside of what is currently expected for project activities.		Negligible	Not significant						

Receptor	Project Aspect	Embedded Mitigation	Assessment of Offshore Development in isolation							Cumulative assessment with other relevant projects					
			Climate Change Variable	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms	Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
	OAA, Offshore ECC, Intertidal ECC, Onshore ECC, Onshore Substation and EBI	N/A	Increased rainfall		Negligible	Negligible: Changing rainfall averages will not change to a level within the Salamander Project lifecycle that will present a risk to health and safety conditions outside of what is currently expected for Salamander Project activities.		Negligible	Not significant						

23.2.15 Major Accidents and Disasters

Table 23-15 Summary of Major Accidents and Disasters Impacts and Mitigation

Group Risk Event	Source and/or pathway(s)	Receptor	Reasonable worst consequence if event did occur	Embedded Mitigation	Risk Ranking *			Additional Mitigation	Risk Ranking After Additional Mitigation			Residual Significance of Risk	Significance of Effect in EIA Terms	Cumulative assessment with other relevant projects					
					L	C	S		L	C	S			Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Construction, Operation, Maintenance and Decommissioning - Major Industrial Accidents	Explosion, electrical malfunction, or fire at the Offshore Development	People including site personnel and mariners at sea	Any explosion, electrical malfunction or fire at the Offshore Development could lead to injury or death of personnel on site or nearby mariners at sea	Co31, Co11, Co9, Co28, Co32, Co47 and Co46	1	4		No additional mitigation measures have been identified for this effect above and beyond the embedded mitigation listed in Volume ER.A.3, Chapter 21 Major Accidents and Disasters (Offshore) as it was concluded that the effect was Not Significant .	1	4		Minor	Not Significant	No potential Significant Cumulative Impacts.					
	Explosion, electrical malfunction, or fire at the Offshore Development	Environment	Any explosion, electrical malfunction or fire at the Offshore Development could result in the loss of components into the sea which could lead to the environment being polluted and biodiversity being impacted	Co9, Co10, Co47 and Co3	2	3			2	3		Minor	Not Significant						
	Explosion, electrical malfunction, or fire at the Offshore Development	Offshore Development components	Any explosion, electrical malfunction or fire at the Offshore Development could result in damage leading to the loss of components such as a turbine blade stopping all operations.	Co31, Co9, Co28, Co47 and Co32	2	4			2	4		Moderate	Not Significant						
Operation and Maintenance - System Failure	A system failure leading to an electrical fault, explosion or fire	People including site personnel and mariners at sea	If there is a system failure that results in an electrical failure, explosion or fire this could directly result in injury or death of site personnel working on the Offshore	Co31, Co10, Co32, Co11, Co46, Co47 and Co3	2	4			2	4		Moderate	Not Significant						

Group Risk Event	Source and/or pathway(s)	Receptor	Reasonable worst consequence if event did occur	Embedded Mitigation	Risk Ranking *			Additional Mitigation	Risk Ranking After Additional Mitigation			Residual Significance of Risk	Significance of Effect in EIA Terms	Cumulative assessment with other relevant projects					
					L	C	S		L	C	S			Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
External source i.e. lightning strike on a WTG	Environment	Environment	A lightning strike can damage the WTG resulting in an electrical failure or explosion resulting in the loss of components such as a turbine blade into the marine environment possibly polluting the habitat and impacting the biodiversity	Co9, Co10, Co47 and Co3	2	3			2	3		Minor	Not Significant						
	Offshore Development components	Offshore Development components	A lightning strike can damage the Offshore Development components resulting in an electrical failure or explosion directly damaging the components and/or nearby other material assets. This would lead to operations could be stopped temporarily or permanently	Co9, Co47 and Co31	2	4			2	4		Moderate	Not Significant						
Construction and decommissioning - UXO Presence	Accidental Detonation	People including site personnel and mariners at sea	Accidental detonation of UXO could result in injury of site personnel or other mariners nearby.	Co11, Co18, Co46, Co47 and Co19	1	5			1	5		Moderate	Not Significant						
	Accidental Detonation	Environment	Accidental detonation of UXO could lead to damage of the seabed and harm to nearby marine animals	Co11, Co18, Co46, Co47 and Co19	1	4			1	4		Minor	Not Significant						

Group Risk Event	Source and/or pathway(s)	Receptor	Reasonable worst consequence if event did occur	Embedded Mitigation	Risk Ranking *			Additional Mitigation	Risk Ranking After Additional Mitigation			Residual Significance of Risk	Significance of Effect in EIA Terms	Cumulative assessment with other relevant projects					
					L	C	S		L	C	S			Sensitivity	Magnitude	Significance of Effect	Additional Mitigation	Residual Significance of Effect	Significance in EIA Terms
Accidental Detonation	Offshore Development components	Accidental detonation of UXO could lead to damage of survey equipment and vessel	Co11, Co18, Co46, Co47 and Co19	1	5			1	5		Moderate	Not Significant							
Construction, Operation and Maintenance, Decommissioning - Marine SIMOPS	An increased potential for collision of Salamander Project vessels	Offshore Development component	Damage to vessels and equipment and delays in construction activities.	Co30, Co32, Co18, Co3, Co11, Co46, Co47 and Co19	2	3			2	3		Minor	Not Significant						
Construction, Operation and Maintenance, Decommissioning - Interference/contact with subsea assets during offshore operations	carrying out works at the wrong locations leading to interference/contact with subsea assets and shallow gas	Offshore Development and other marine assets and infrastructure	Any interference/contact with subsea assets during offshore operations has potential to cause equipment damage, delays in operation and damage to charted pipelines within the Offshore ECC.	Co11, Co18, Co47 and Co19	2	3			2	3		Minor	Not Significant						
Construction - Equipment accidents during offshore operations	Dropping equipment on subsea assets and uncontrolled pay out of equipment	Offshore Development and other marine assets and infrastructure	Dropping equipment on subsea assets and uncontrolled pay out of equipment has potential cause equipment damage, delays in operation and damage to charted pipelines within the Offshore ECC.	Co11, Co18, Co09, Co47 and Co19	2	3			2	3		Minor	Not Significant						
Construction, Operation and Maintenance, Decommissioning - Launch and recovery of equipment exposing site personnel to potential	Launch and recovery of equipment exposing site personnel to potential	People including site personnel and mariners at sea	Activities involving the launch and recovery of equipment could lead to accidents resulting in injury to site personnel, man overboard when the	Co11, Co18, Co46, Co47 and Co19	2	3			2	3		Minor	Not Significant						

23.3 Summary of impacts assessed cumulatively with the Onshore Development

23.3.1.1 The Onshore Development components are summarised in **Volume ER.A.2, Chapter 4: Project Description**. These Project aspects have been considered in relation to the impacts assessed within each of the Offshore EIA Chapters (**Volume ER.A.2, Chapters 7 – 21**). **Sections 23.3.2 to 23.3.13** summarise the result of the Offshore Development cumulatively with the Onshore Development.

23.3.2 Marine Physical Processes

23.3.2.1 The Onshore Development will undertake trenchless cable installation operations from above mean high water spring tide, with an exit point occurring no closer than 200 m from MHWS. The impacts from the installation of the Offshore Export Cable(s) (including the landfall activities) have been assessed in full in **Volume ER.A.3, Chapter 7: Marine Physical Process**. It is not anticipated that there will be any additional impacts from the Onshore Development on Marine Physical Processes receptors as all other activities from the Onshore Development are fully terrestrial.

23.3.3 Water and Sediment Quality

23.3.3.1 The main components of the Onshore Development which have the potential to disturb receptors of Water and Sediment Quality and WFD include activities taking place just above MHWS or within the intertidal zone such as trenchless cable installation, trenching at the landfall location, installation of the onshore cables and onshore substation and any additional temporary construction areas.

23.3.3.2 Receptors detailed within the impact assessment of the Water and Sediment Quality Chapter primarily at risk of interactions with the Onshore Development include:

- Water Quality;
- Sediment Quality; and
- Water quality within designated WFD water bodies.

23.3.3.3 The impacts originated from the Onshore activities have been fully assessed within the Offshore impacts, **Volume ER.A.3, Chapter 8: Water and Sediment Quality**, and it is not anticipated that there will be any additional impacts from the construction and operation activities of the Onshore Development on the identified receptors. Overall, the sensitivity of the receptors is considered **Low** and the magnitude of the impacts was assessed as **Medium to Low** therefore resulting in **Minor to Negligible** effects. No significant cumulative effects are expected during Construction and Operation and Maintenance phases of Onshore and Offshore activities of the Salamander Project, and therefore the overall impact is assessed as **Not Significant** in EIA terms. Therefore, there is no requirement for additional mitigation measures above the embedded measures proposed in **Volume ER.A.3, Chapter 8: Water and Sediment Quality**.

23.3.4 Benthic and Intertidal Ecology

23.3.4.1 The main components of the Onshore Development which have the potential to disturb receptors of Benthic and Intertidal Ecology include trenchless installation at the Landfall.

23.3.4.2 Receptors detailed within the impact assessment of this chapter primarily at risk of interactions with the Onshore Development include Receptor groups VER A littoral rock, VER B infralittoral rock, VER G sublittoral coarse sediment, VER H littoral sand and VER I sublittoral sand.

23.3.4.3 The impacts associated with trenchless installation at the Landfall with potential to impact Benthic and Intertidal Ecology receptors (i.e. below MHWS) have been assessed in **Volume ER.A.3, Chapter 9: Benthic and Intertidal Ecology**.

23.3.4.4 It is not anticipated that there will be any additional impacts from the Onshore Development on Benthic and Intertidal Ecology receptors as all other activities from the Onshore Development are fully terrestrial.

23.3.5 Fish and Shellfish Ecology

- 23.3.5.1 The main components of the Onshore Development which have the potential to disturb receptors of Fish and Shellfish Ecology are the trenchless operations at the Landfall.
- 23.3.5.2 Receptors detailed within the impact assessment of this chapter primarily at risk of interactions with the Onshore Development include the demersal fish and shellfish receptor groups.
- 23.3.5.3 The impacts associated with trenchless operations at the Landfall with potential to impact Fish and Shellfish Ecology receptors (i.e. below MHWS) have been assessed in **Volume ER.A.3, Chapter 10: Fish and Shellfish Ecology**.
- 23.3.5.4 It is not anticipated that there will be any additional impacts from the Onshore Development on Fish and Shellfish Ecology receptors as all other activities from the Onshore Development are fully terrestrial.

23.3.6 Marine Mammals

- 23.3.6.1 The main components of the Onshore Development which have the potential to disturb receptors of Marine Mammals include trenchless operations at the Landfall.
- 23.3.6.2 The impacts associated with trenchless operations at the Landfall with potential to impact Marine Mammal receptors (i.e. below MHWS) have been assessed in **Volume ER.A.3, Chapter 11: Marine Mammals**.
- 23.3.6.3 It is not anticipated that there will be any additional impacts from the Onshore Development on Marine Mammal receptors as all other activities from the Onshore Development are fully terrestrial.

23.3.7 Offshore and Intertidal Ornithology

- 23.3.7.1 In respect of Offshore and Intertidal Ornithology receptors, this will include species which make use of the coast and intertidal environment for roosting, feeding, and / or nesting. The Onshore Development and Offshore Development are very different developments in terms of their size, structure, and context which, in turn, affects the extents and magnitude to which their respective Ornithology Study Areas will be affected. The assessment of the Offshore Development presented in **Volume ER.A.3, Chapter 12: Offshore and Intertidal Ornithology** concludes that significant effects on Offshore and Intertidal Ornithology will not occur. The effects of the Onshore Development will be of a notably lower magnitude, largely owing to the relatively small scale of the Onshore Development. Interaction between the Onshore Development and Offshore and Intertidal Ornithology receptors will be limited to the coastal works at the landfall site.
- 23.3.7.2 The Onshore Development will involve trenchless operations from above MHWS, with an exit point no closer than 200 m from MHWS offshore. During the trenchless operations, the presence of personnel and construction equipment will result in disturbance of birds in the immediate vicinity of the ongoing works. Although disturbance is expected to occur, this will be temporary in nature, and will cover a limited spatial extent, thus significant effects are not expected to occur. The only potential impact to Offshore and Intertidal Ornithology receptors in response to the Onshore Development is temporary disturbance.
- 23.3.7.3 The very limited potential for significant effects to arise on any of the Offshore and Intertidal Ornithology receptors as a result of the Onshore Development means that in considering the cumulative impacts of these developments, impacts will relate almost entirely to the effects of the Offshore Development and not the cumulative effects of the Offshore Development and Onshore Development.

23.3.8 Commercial Fisheries

- 23.3.8.1 Due to the nature of the potential impacts identified for commercial fisheries, and following consideration of the onshore project components, it has been concluded there is no pathway for impacts or resultant effects on commercial fisheries receptors cumulatively with the Onshore Development activities due to lack of interaction.

23.3.9 Shipping and Navigation

23.3.9.1 Due to the wholly offshore nature of the potential impacts identified for Shipping and Navigation it has been concluded that no impacts or resultant effects are expected on Shipping and Navigation receptors cumulatively with the Onshore Development activities.

23.3.10 Aviation and Radar

23.3.10.1 It is not anticipated that there will be any additional impacts from the Onshore Development on Aviation and Radar receptors as the Landfall is over 40 km from the proposed Offshore Array Area Generation Assets and there are no above ground associated high-speed moving parts to affect aviation PSR.

23.3.11 Seascape, Landscape and Visual Amenity

23.3.11.1 There is potential for the OAA to have impacts cumulatively with the Onshore Development from locations where their Zone of Theoretical Visibility (ZTV) overlap.

23.3.11.2 The seascape, landscape and visual receptors that may be affected cumulatively by both the OAA and the Onshore Development include the South Inch to Peterhead (LCCA 5), which characterizes the closest section of coastline from which the Offshore Development may be visible, while also adjoining the Onshore Development Area; and the Beaches, Dunes and Links - Aberdeenshire (LCT 12), that will host the Onshore Development, including the Onshore Substation (OnSS), Energy Balancing Infrastructure (EBI) and Battery Storage Area.

23.3.11.3 No significant project alone effects on coastal (seascape) character, landscape character or visual receptors as a result of the Offshore Development have been assessed. This is primarily due to its small scale, limited visibility and long distance offshore from this coastline, and the presence of similar development within baseline (Hywind Scotland) and the influence of other terrestrial energy developments within the coastal character.

23.3.11.4 While there is potential for in-combination cumulative effects to occur from receptors in the locality of the Onshore Development Area, the lack of potential significant project alone effects from the Offshore Development on any of the coastal (seascape), landscape and visual receptors means that any potential additional cumulative effects are also unlikely to be significant (as an addition to effects arising from the Onshore Development) given the factors assessed (its small scale, limited visibility and long distance offshore).

23.3.12 Marine Archaeology and Cultural Heritage

23.3.12.1 The Assessment of Impacts Cumulatively with the Onshore Development considers the effects of the Offshore Development cumulatively with the Onshore Development for the Marine Archaeology and Cultural Heritage receptors, as well as onshore archaeology and cultural heritage receptors in relation to effects on setting from the Offshore Development.

23.3.12.2 The potential for cumulative effects will arise in respect of those Cumulative direct and indirect physical impacts, principally between MHWS and MLWS, where the Offshore Development Area overlaps with the Onshore Development Area. Cumulative direct and indirect physical impacts are most likely to result from construction-related direct physical impacts. Transition Joint Bays will be located above MHWS, beyond the Offshore Development Area, as assessed in the Onshore EIAR and exit pits will be outside of this intertidal area. Only further survey, such as core sampling would provide overlap. Therefore, there is limited potential overlap within this area for the Salamander Project, as proposed. The worst-case design scenario is given within **Volume ER.A.3, Chapter 17: Marine Archaeology and Cultural Heritage**.

23.3.12.3 Known Marine Archaeology and Cultural Heritage receptors have been identified and appropriate mitigation recommended will ensure that no direct physical impacts will occur during Salamander Project

lifecycle, and indirect physical impacts may be reduced and monitored. Continued use of the mitigation ensures impacts are limited to a **Minor** significance.

- 23.3.12.4 Potential cumulative direct and indirect physical impacts on unknown Marine Archaeology and Cultural Heritage receptors may arise through trenchless cable laying. The assessment within **Volume ER.A.3, Chapter 17: Marine Archaeology and Cultural Heritage** identified a potential for subsurface remains within the intertidal zone, most likely relating to the Second World War defensive structures identified slightly above MHWS. Impacts to any such remains would be mitigated by the adherence to the WSI and PAD. Further detail can be found within **Volume ER.A.6, Plan P.6 Written Scheme of Investigation and Protocol for Archaeological Discoveries – Archaeology (Offshore)**. Any subsequent impacts would not carry greater than **Minor** significance.
- 23.3.12.5 The potential for cumulative effects on settings may arise in respect of those onshore archaeology and cultural heritage receptors that will be affected by both the Onshore and Offshore Development. These will include the designated assets, St Fergus old parish church and churchyard (SM5622 and LB16536), and Castle Hill Motte (SM3259) upon which visibility of the Onshore Development and Offshore Development will have direct effects.
- 23.3.12.6 The Onshore Development and Offshore Development, namely the OAA, are very different developments in terms of their size, structure and context which in turn affects the extents and magnitude taken into account within each of the individual assessments. The assessment of the OAA presented in **Volume ER.A.3, Chapter 17: Marine Archaeology and Cultural Heritage** concludes that negligible or no significant effects will occur from the OAA, largely owing to the distance and scale of the WTGs; minor beneficial significance will occur to Rattray Head Lighthouse (LB3042), Buchan Ness Lighthouse (LB16367) and Kinnaird Head Lighthouse (LB31888), for which there is no overlap with the onshore.
- 23.3.12.7 The lack of potential significant effects on the receptors identified within the settings assessments as a result of the OAA and Onshore Development means that any potential for cumulative effects of both developments will be due to the effects of the Onshore Development alone and not the cumulative effects of the Offshore Development and Onshore Development.

23.3.13 Other Users of the Marine Environment

- 23.3.13.1 The main components of the Onshore Development which have the potential to disturb receptors of Other Users of the Marine Environment include installation works at the landfall location, installation of the onshore cables and onshore substation and any additional temporary construction areas.
- 23.3.13.2 Receptors detailed within the impact assessment of this chapter primarily at risk of interactions with the Onshore Development include any onshore activities of mobile recreational users, as described within **Volume ER.A.3, Chapter 18: Other Users of the Marine Environment**. Additionally, there is potential for cumulative impacts during the Construction phase of the Onshore Development with the onshore elements of the proposed Green Volt, MarramWind and Muir Mhòr OWFs.
- 23.3.13.3 Impacts from the Offshore Development on recreational users and cumulative impacts with other OWFs have been assessed as **Not Significant**. It is anticipated that any disruption caused by the Onshore Development will be mitigated in a similar manner to that of the Offshore Development. For example, relevant onshore stakeholders will be consulted in relation to the Salamander Project; all works will comply with health and safety regulations and adhere to standard industry good practice methods; and notices of the commencement of works will be disseminated via appropriate media outlets.
- 23.3.13.4 In light of the above mitigations and given the localised and temporary nature of Construction activities, **No Significant Effects** from the Onshore Development are predicted to occur on receptors of the Other Users of the Marine Environment. The Onshore Development is not expected to change the magnitude or the

significance of effect of the potential impacts assessed in **Volume ER.A.3, Chapter 18: Other Users of the Marine Environment.**