

A decorative graphic on a teal background. It features a central image of a worker in a yellow safety vest and white helmet, framed in white. To the left is a blue and white image of wind turbines in water. Below these are several white wind turbine icons arranged in a grid-like pattern. The background has abstract shapes and white wave-like lines.

Arklow Bank Wind Park 2

Environmental Impact Assessment Report

Volume II, Chapter 24: Summary of Cumulative Effects (Revised
March 2026)

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1.0	09/05/24 09/05/2024	Final (External)	GoBe Consultants	GoBe Consultants	Sure Partners Limited
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Statement of Authority

Please refer to each topic specific chapter of the EIAR for relevant statements of authority.

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Glossary

Term	Meaning
Arklow Bank Wind Park 1 (ABWP1)	Arklow Bank Wind Park 1 consists of seven wind turbines, offshore export cable and inter-array cables. Arklow Bank Wind Park 1 has a capacity of 25.2 MW. Arklow Bank Wind Park 1 was constructed in 2003/04 and is owned and operated by Arklow Energy Limited. It remains the first and only operational offshore windfarm in Ireland.
Arklow Bank Wind Park 2 – Offshore Infrastructure	“The Proposed Development”, Arklow Bank Wind Park 2 Offshore Infrastructure: This includes all elements under the existing Maritime Area Consent.
Arklow Bank Wind Park 2 (ABWP2) (The Project)	<p>Arklow Bank Wind Park 2 (ABWP2) (The Project) is the onshore and offshore infrastructure. This EIAR is being prepared for the Offshore Infrastructure. Consents for the Onshore Grid Infrastructure (Planning Reference 310090) and Operations Maintenance Facility (Planning Reference 211316) has been granted on 26th May 2022 and 20th July 2022, respectively.</p> <ul style="list-style-type: none"> • Arklow Bank Wind Park 2 Offshore Infrastructure: This includes all elements to be consented in accordance with the Maritime Area Consent. This is the subject of this EIAR and will be referred to as ‘the Proposed Development’ in the EIAR. • Arklow Bank Wind Park 2 Onshore Grid Infrastructure: This relates to the onshore grid infrastructure for which planning permission has been granted. • Arklow Bank Wind Park 2 Operations and Maintenance Facility (OMF): This includes the onshore and nearshore infrastructure at the OMF, for which planning permission has been granted. • Arklow Bank Wind Park 2 EirGrid Upgrade Works: any non-contestable grid upgrade works, consent to be sought and works to be completed by EirGrid.
Array Area	The Array Area is the area within which the Wind Turbine Generators (WTGs), the Offshore Substation Platforms (OSPs), and associated cables (export, inter-array and interconnector cabling) and foundations will be installed
Cable Corridor and Working Area	The Cable Corridor and Working Area is the area within which export, inter-array and interconnector cabling will be installed This area will also facilitate vessel jacking operations associated with installation of WTG structures and associated foundations within the Array Area.
Cumulative effects	The addition of many minor or significant effects, including effects of other projects, to create a larger, more significant effect.
Environmental Impact Assessment (EIA)	An Environmental Impact Assessment (EIA) is a statutory process by which certain planned 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 Directive 2011/92/EU on the assessment of the effects of certain public and private

Term	Meaning
	projects on the environment as amended by Directive 2014/52/EU of the European Parliament and of the Council (EIA Directive).
EirGrid	State-owned electric power transmission system operator (TSO) in Ireland and Transmission Asset Owner (TAO) for the Project's transmission assets.
Landfall	The area in which the offshore export cables make landfall and is the transitional area between the offshore cabling and the onshore cabling.
Maritime Area Consent (MAC)	A consent to occupy a specific part of the maritime area on a non-exclusive basis for the purpose of carrying out a Permitted Maritime Usage strictly in accordance with the conditions attached to the MAC granted on 22 nd December 2022 with reference number 2022-MAC-002.
Mitigation Measure	Measure which would avoid, reduce, or offset an impact.
Permitted Maritime Usage	The construction and operation of an offshore windfarm and associated infrastructure (including decommissioning and other works required on foot of any permission for such offshore windfarm).
The Application	The full set of documents that will be submitted to An Bord Pleanála in support of the consent application.
The Developer	Sure Partners Ltd.

Acronyms

Term	Meaning
ABWP1	Arklow Bank Wind Park 1
ABWP2	Arklow Bank Wind Park 2
AEZ	Archaeological Exclusion Zone
ALAN	Artificial Lighting at Night
ALARP	As Low as Reasonably Practical
AMP	Archaeology Management Plan
AQC	Aquaculture
BW	Bathing Waters
CA	Coastal Asset
CBRA	Cable Burial Risk Assessment
CCS	Carbon Capture Storage
CIA	Cumulative Impact Assessment
COLREGs	Convention on the International Regulations for Preventing Collisions at Sea, 1972
DHLGH	Department of Housing, Local Government and Heritage
DoD	Department of Defence
ECMG	East Coast Monitoring Group
EIA	Environmental Impact Assessment
EIAR	Environmental Impact Assessment Report
EMF	Electromagnetic Field
EMP	Environmental Management Plan
EPA	Environmental Protection Agency

Term	Meaning
ERCoP	Emergency Response Cooperation Plan
EVMP	Environmental Vessel Management Plan
FLO	Fisheries Liaison Officer
FLR	Future Leasing Round or Plan
FMMS	Fisheries Management and Mitigation Strategy
GVA	Gross Value Added
HWM	High Water Mark
IAA	Irish Aviation Authority
IEF	Important Ecological Features
INNS	Invasive and Non-Native Species
INISMP	Invasive Non-Indigenous Species Management Plan
IRCG	Irish Coastguard
LAT	Lowest Astronomical Tide
LCA	Landscape Character Area
LMP	Lighting and Marking Plan
MMMP	Marine Mammal Mitigation Plan
MPCP	Marine Pollution Contingency Plan
MW&SQ	Marine Water and Sediment Quality
NMS	National Monuments Service
NSR	Noise Sensitive Receptors
OFLO	Offshore Fisheries Liaison Officer
OOE	Other Offshore Energy
OWF	Offshore Wind Farm

Term	Meaning
O&GI	Oil and Gas Infrastructure
O&GP	Oil and Gas Pipeline
PAM	Passive Acoustic Monitoring
PINS	Planning Inspectorate
ROV	Remote Operated Vehicle
SAAO	Special Amenity Area Order
SAC	Special Area of Conservation
SAR	Search and Rescue
SC	Subsea Cable
SLVIA	Seascape, Landscape and Visual Impact Assessment
SOLAS	Safety of Life at Sea
SUR	Survey
S&P	Shipping and Ports
VMP	Vessel Management Plan
WTG	Wind Turbine Generator

Units

Unit	Description
CO ₂ eq	Carbon dioxide equivalent
dB	Decibel (unit used to measure the intensity of sound)
ft	Feet

24 Summary of Cumulative Effects

Summary of Changes

This Appendix has been reviewed and updated to reflect refinements to the cumulative assessment approach since submission of the original Environmental Impact Assessment Report (EIAR) to An Bord Pleanála (now An Coimisiún Pleanála) in June 2024.

In response to the Request for Further Information (RFI) 1b, the Applicant confirms that the cumulative effects assessment has been revised to ensure that relevant and appropriate information is submitted in accordance with current best-practice guidance.

The cumulative assessment methodology applied within each of the topic-specific EIAR chapters has been updated in accordance with RFI 5 and the four-stage assessment process set out in the Planning Inspectorate's (PINS) Nationally Significant Infrastructure Projects: Advice on Cumulative Effects Assessment (PINS, 2024). As a result, the summary tables originally presented in this Chapter have been updated to align with the revised topic-specific cumulative assessments. In addition, the PINS (2024) "Appendix 2: Matrix 1 – Assessment Matrix" has been applied, providing a complementary, standardised matrix format in this Chapter to clearly present the cumulative effects assessments requested under RFI 5.

The following sections of this Chapter have been amended:

Sections 24.2-24.4

Cross-references have been updated throughout as required.

24.1 Introduction

24.1.1.1 This chapter of the Environmental Impact Assessment Report (EIAR) presents a summary of the potential cumulative effects of the Arklow Bank Wind Park 2 Offshore Infrastructure (hereafter referred to as 'the Proposed Development'). Specifically, this chapter presents a summary of the potential cumulative effects of the Proposed Development, alongside other projects, plans and activities, during the construction, operational and maintenance and decommissioning phases.

24.1.1.2 Cumulative effects are defined as per the Environmental Protection Agency (EPA) Guidelines (EPA, 2022) as:

"The addition of many minor or insignificant effects, including effects of other projects, to create larger, more significant effects. While a single activity may itself result in a minor impact, it may, when combined with other impacts (minor or insignificant), result in a cumulative impact that is collectively significant."

24.1.1.3 The Cumulative Impact Assessment (CIA) for each topic of the EIAR is presented in Volume II, Chapters 6 to 22. This summary chapter should be read alongside the detailed information contained within each of these technical chapters. The CIA methodology is detailed in Volume III, Appendix 3.2: Cumulative Impact Assessment Screening (Revised March 2026). This chapter presents the summary of potential cumulative effects tables from each of the EIAR chapters in order to provide a compiled summary of cumulative effects from the Proposed Development.

24.1.1.4 In response to RFI 5, an additional set of cumulative assessment tables have been prepared in accordance with the Planning Inspectorate's Nationally Significant Infrastructure Projects: Advice on Cumulative Effects Assessment (PINS, 2024). These additional, new tables follow the structure of Appendix 2: Matrix 1 – Assessment Matrix from PINS (2024) and are included alongside the existing cumulative assessment summaries presented in Section 24.2 to clearly demonstrate the cumulative effects conclusions in line with PINS (2024).

24.1.1.5 The PINS (2024) matrices do not replace the cumulative effects tables that have been presented within the EIAR. Instead, they provide a complementary, standardised format that enhances clarity and consistency, particularly in relation to cross-project comparison across the Irish Sea Phase 1 projects. The original cumulative tables continue to report topic-specific cumulative effects in the format used throughout Volume II Chapters 6 - 22, while the new matrices present the same underlying conclusions using a consistent framework (i.e. as per PINS, 2024) as requested.

24.1.1.6 To support readability within the new matrices, a consolidated list of the Project Identification (ID) Codes has been established and used throughout the new matrices (as provided in Table 24.1 below). These ID codes follow the convention adopted in the cumulative long list (Volume III, Appendix 3.2: Cumulative Impact Assessment Screening (Revised March 2026)), where the alphabetical prefix identifies the category of development or activity and the numerical suffix (used within the matrices) provides a unique cross-reference to the corresponding entry in the long list.

Table 24.1 Project Identification (ID) Codes

Project ID Code	Definition
AGG	Aggregate Area
AQC	Aquaculture
CA	Coastal Asset
CCS	Carbon Capture Storage
DAS	Dumping At Sea Site
DISP	Disposal Site
FLR	Future Leasing Round or Plan
OOE	Other Offshore Energy
OWF	Offshore Wind Farm
O&GI	Oil and Gas Infrastructure
O&GP	Oil and Gas Pipeline
SC	Subsea Cable
SUR	Survey
S&P	Shipping and Ports

24.1.1.7 For clarity, the abbreviations C, O and D used within the cumulative assessment tables denote the Construction, Operational and Maintenance, and Decommissioning phases of the Proposed Development (respectively).

24.2 Summary

24.2.1 Coastal Processes

- 24.2.1.1 [Volume II, Chapter 6: Coastal Processes \(Revised March 2026\)](#) provides a full assessment of the potential cumulative impacts of the Proposed Development on coastal processes. [Table 24.42](#) presents a summary of the potential cumulative effects. [The supplementary cumulative assessment table prepared in accordance with PINS \(2024\) Appendix 2 is provided for this topic in Table 24.3.](#)
- 24.2.1.2 The cumulative impacts assessed include: increased suspended sediment concentrations and associated deposition; and presence of infrastructure may lead to changes to tidal currents, wave climate, sediment transport and seabed morphology.
- 24.2.1.3 Overall, it is concluded that there will be no significant cumulative effects from the Proposed Development alongside other projects, plans and activities.

Table 24.42: Summary of potential cumulative environmental impacts, mitigation and monitoring for Coastal Processes

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Increased suspended sediment concentrations and associated deposition	✓	✓	✓	<p>Definition and implementation of construction methods, Volume II, Chapter 4: Description of Development (Revised March 2026) and Volume III, Appendix 4.1: Rehabilitation Schedule.</p> <p>Preparation and implementation of environmental monitoring – Cables will be buried where possible and protected where not possible. – Undertaking of post-installation cable burial surveys and periodic monitoring of cables.</p>	<p>C: Low</p> <p>O: Low</p> <p>D: Low</p>	No Coastal Processes receptors sensitive to the impact pathway.	No Coastal Processes receptors sensitive to the impact pathway therefore assessment of effects is not applicable.	None	N/A	N/A

Description of impact	Phase	Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C O D							
Presence of infrastructure may lead to changes to tidal currents, wave climate, sediment transport and seabed morphology	x ✓ x	N/A	O: Low	<p>O: Medium for offshore sandbanks.</p> <p>O: For sites designated for physical features— Medium for Wicklow Reef Special Area of Conservation (SAC); and Low sensitivity for Magherabeg Dunes and Buckronee Brittas Dunes and Fen SACs.</p> <p>O: Medium for offshore sandbanks, coastal receptors below the High Water</p>	<p>O: Slight adverse (not significant in EIA terms) for offshore sandbanks and Wicklow Trough bathymetric feature.</p> <p>O: Not significant for all sites designated for physical features and coastal receptors below HWM.</p>	None	<p>O: Slight adverse (not significant in EIA terms) for offshore sandbanks and Wicklow Trough bathymetric feature.</p> <p>O: Not significant for sites designated for physical features and coastal receptors below HWM.</p>	N/A

Description of impact	Phase	Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C O D			Mark (HWM), and Wicklow Reef Special Area of Conservation (SAC)).				
				O: Low (Magherabeg Dunes and Buckroney-Brittis Dunes and Fen SACs, and Wicklow Trough bathymetric feature).				

Table 24.3: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for Coastal Processes (Additional Table Provided in Response to RFI 5)

Other Plans and Projects and IDs	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect

Cumulative Impact 1: Increased suspended sediment concentrations and associated deposition

<p>ABWP2 OGI [CA_01] ABWP2 OMF [CA_06] Arklow Phase 1 Power Cable [SC_01] Arklow Bank Wind Park 1 [OWF_01] HIBERNIA ATLANTIC SEG D [SC_02] Codling Wind Park [OWF_03] Wicklow Port [S&P_01] Arklow Port [S&P_02] Flood relief scheme Arklow [CA_05]</p>	<p>Tier 1</p>	<p>Assessment presented in Section 6.14.2 of Volume II, Chapter 6, Coastal Processes (Revised March 2026)</p>	<p><u>Tier 1</u> No Coastal Processes receptors sensitive to the impact pathway therefore assessment of effects is not applicable.</p>	<p>No additional mitigation required</p>	<p><u>Tier 1</u> No Coastal Processes receptors sensitive to the impact pathway therefore assessment of effects is not applicable.</p>
<p>Decommissioning of ABWP1 [OWF_02]</p>	<p>Tier 3</p>		<p><u>Tier 1 + Tier 3</u> No Coastal Processes receptors sensitive to the impact pathway therefore assessment of effects is not applicable.</p>	<p>No additional mitigation required</p>	<p><u>Tier 1 + Tier 3</u> No Coastal Processes receptors sensitive to the impact pathway therefore assessment of effects is not applicable.</p>

Cumulative Impact 2: Presence of infrastructure may lead to changes to tidal currents, wave climate, sediment transport and seabed morphology

Arklow Bank Wind Park 1 [OWF_01] Codling Wind Park [OWF_03] Wicklow Port [S&P_01] Arklow Port [S&P_02]	Tier 1	Assessment presented in Section 6.14.3 of Volume II, Chapter 6, Coastal Processes (Revised March 2026)	<u>Tier 1</u> O: Slight adverse (offshore sandbanks and important bathymetric features) O: Not significant (sites designated for physical features and coastal receptors below HWM)	No additional mitigation required	<u>Tier 1</u> O: Slight adverse (offshore sandbanks and important bathymetric features) O: Not significant (sites designated for physical features and coastal receptors below HWM)
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24.2.2 Marine Water and Sediment Quality

- 24.2.2.1 [Volume II, Chapter 7: Marine Water and Sediment Quality \(MW&SQ\) \(Revised March 2026\)](#) provides a full assessment of the potential cumulative impacts of the Proposed Development on MW&SQ. [Table 24.24](#) presents a summary of the potential cumulative effects. [The supplementary cumulative assessment table prepared in accordance with PINS \(2024\) Appendix 2 is provided for this topic in Table 24.5.](#)
- 24.2.2.2 The cumulative impacts assessed include: deterioration in water quality due to suspension of sediments; release of sediment bound contaminants from disturbed sediments; and accidental release or spills of materials or chemicals.
- 24.2.2.3 Overall, it is concluded that there will be no significant cumulative effects from the Proposed Development alongside other projects, plans and activities.

Table 24.24: Summary of potential cumulative environmental impacts, mitigation and monitoring for Marine Sediment and Water Quality

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Deterioration in water quality due to suspension of sediments	✓	✓	✓	An Environmental Management Plan (EMP) will be implemented (Volume III, Appendix 25.1: EMP (Revised March 2026)); Scour protection will be installed as described in Volume II, Chapter 4: Description of Development (Revised March 2026); and Development of and adherence to a Rehabilitation Schedule	C: Low O: Low D: Low	C; O; D: Medium for designated Bathing Waters (BW); Low for Coastal and Transitional waterbodies, and the wider marine environment.	C; O; D: Slight adverse for all receptors– (not significant in EIA terms)	None	C; O; D: Slight adverse for all receptors. (not significant in EIA terms)	N/A
Release of sediment bound contaminants	✓	✓	✓	An EMP will be implemented (Volume III, Appendix 25.1: EMP	C: Low O: Low D: Low	C; O; D: Low for designated BWs; Medium for	C; O; D: Imperceptible to Slight adverse for designated BWs, designated	None	C; O; D: Imperceptible to Slight adverse for designated BWs, for designated BWs,	N/A

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
from disturbed sediments				<p>(Revised March 2026));</p> <p>Scour protection will be installed as described in Volume II, Chapter 4: Description of Development (Revised March 2026);</p> <p>Preparation and Implementation of an Operational and Maintenance; and</p> <p>Development of and adherence to a Rehabilitation Schedule</p>		designated coastal and transitional waterbodies; and Negligible for the wider marine environment.	<p>coastal and transitional waterbodies, and the wider marine environment. (not significant in EIA terms).</p>		<p>designated coastal and transitional waterbodies, and the wider marine environment. (not significant in EIA terms).</p>	
Accidental release or spills of materials or chemicals	✓	✓	✓	An EMP will be implemented (Volume III, Appendix 25.1: EMP (Revised March 2026));	<p>C: Low</p> <p>O: Low</p> <p>D: Low</p>	C; O; D: Low for designated BWs; Medium for designated coastal and transitional	C; O; D: Imperceptible to Slight adverse for designated BWs, designated coastal and transitional waterbodies; and	None	C; O; D: Imperceptible to Slight adverse for designated BWs, designated coastal and transitional	N/A

Description of impact	Phase C O D	Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
		<p>A Marine Pollution Contingency Plan (MPCP) will be included in the EMP to ensure plans are in place to manage any marine pollution spills and including key emergency contact details; and</p> <p>Development of and adherence to a Vessel Management Plan (VMP).</p>		<p>waterbodies; and Negligible for the wider marine environment.</p>	<p>for the wider environment. (not significant in EIA terms).</p>		<p>waterbodies; and for the wider environment. (not significant in EIA terms).</p>	

Table 24.5: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for Marine Water and Sediment Quality (Additional Table Provided in Response to RFI 5)

Other Plans and Projects and IDs	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect
Cumulative Impact 1: Deterioration in water quality due to suspension of sediments					
ABWP2 OGI [CA_01] ABWP2 OMF [CA_06] Arklow Phase 1 Power Cable [SC_01] Arklow Bank Wind Park 1 [OWF_01] HIBERNIA ATLANTIC SEG D [SC_02] Codling Wind Park [OWF_03] Wicklow Port [S&P_01] Arklow Port [S&P_02] Flood relief scheme Arklow [CA_05]	Tier 1	Assessment presented in Section 7.12.2 of Volume II, Chapter 7: Marine Water and Sediment Quality (Revised March 2026)	<u>Tier 1</u> C: Slight adverse O: Slight adverse D: Slight adverse	No additional mitigation required	<u>Tier 1</u> C: Slight adverse O: Slight adverse D: Slight adverse
Decommissioning of ABWP1 [OWF_02]	Tier 3		<u>Tier 1 + Tier 3</u> C: Slight adverse O: Slight adverse D: Slight adverse	No additional mitigation required	<u>Tier 1 + Tier 3</u> C: Slight adverse O: Slight adverse D: Slight adverse

Cumulative Impact 2: Release of sediment bound contaminants from disturbed sediments

ABWP2 OGI [CA_01] ABWP2 OMF [CA_06] Arklow Phase 1 Power Cable [SC_01] Arklow Bank Wind Park 1 [OWF_01] HIBERNIA ATLANTIC SEG D [SC_02] Codling Wind Park [OWF_03] Wicklow Port [S&P_01] Arklow Port [S&P_02] Flood relief scheme Arklow [CA_05]	Tier 1	Assessment presented in Section 7.12.3 of Volume II, Chapter 7: Marine Water and Sediment Quality (Revised March 2026)	<u>Tier 1</u> C: Imperceptible to Slight adverse O: Imperceptible to Slight adverse D: Imperceptible to Slight adverse	No additional mitigation required	<u>Tier 1</u> C: Imperceptible to Slight adverse O: Imperceptible to Slight adverse D: Imperceptible to Slight adverse
Decommissioning of ABWP1 [OWF_02]	Tier 3		<u>Tier 1 + Tier 3</u> C: Imperceptible to Slight adverse O: Imperceptible to Slight adverse D: Imperceptible to Slight adverse	No additional mitigation required	<u>Tier 1</u> C: Imperceptible to Slight adverse O: Imperceptible to Slight adverse D: Imperceptible to Slight adverse

Cumulative Impact 3: Accidental release or spills of materials or chemicals

ABWP2 OGI [CA_01] ABWP2 OMF [CA_06] Arklow Phase 1 Power Cable [SC_01] Arklow Bank Wind Park 1 [OWF_01] HIBERNIA ATLANTIC SEG D [SC_02] Codling Wind Park [OWF_03] Wicklow Port [S&P_01] Arklow Port [S&P_02] Flood relief scheme Arklow [CA_05] Irish Mussel Seed Company Ltd [AQC_01]	Tier 1	Assessment presented in Section 7.12.4 of Volume II, Chapter 7: Marine Water and Sediment Quality (Revised March 2026)	<u>Tier 1</u> C: Imperceptible to Slight adverse O: Imperceptible to Slight adverse D: Imperceptible to Slight adverse	No additional mitigation required	<u>Tier 1</u> C: Imperceptible to Slight adverse O: Imperceptible to Slight adverse D: Imperceptible to Slight adverse
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Decommissioning of ABWP1 [OWF_02]	Tier 3	<u>Tier 1 + Tier 3</u>	No additional mitigation required	<u>Tier 1 + Tier 3</u>
		C: Imperceptible to Slight adverse		C: Imperceptible to Slight adverse
		O: Imperceptible to Slight adverse		O: Imperceptible to Slight adverse
		D: Imperceptible to Slight adverse		D: Imperceptible to Slight adverse

24.2.3 Airborne Noise

- 24.2.3.1 [Volume II, Chapter 8: Airborne Noise \(Revised March 2026\)](#) provides a full assessment of the potential cumulative impacts of the Proposed Development on noise sensitive receptors. [Table 24.36](#) presents a summary of the potential cumulative effects. [The supplementary cumulative assessment table prepared in accordance with PINS \(2024\) Appendix 2 is provided for this topic in Table 24.7.](#)
- 24.2.3.2 The cumulative impacts assessed include temporary cumulative construction disturbance to ten onshore noise sensitive receptors (NSRs) (NSRs A - J) from piling at the Proposed Development and Codling Wind Park, and the cumulative operational impact assessment takes into account the potential cumulative airborne noise impacts associated with the Proposed Development together with the existing Arklow Bank Wind Park 1 (ABWP1).
- 24.2.3.3 Overall, it is concluded that there will be no significant cumulative effects from the Proposed Development alongside other projects, plans and activities.

Table 24.36: Summary of potential cumulative environmental impacts, mitigation and monitoring for Airborne Noise

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Temporary cumulative airborne noise from piling	✓	✗	✗	Development of and adherence to a Construction Noise Management Plan.	C: Low during daytime and during evening; Medium during nighttime.	C: Medium	C: Slight during daytime and evening; Moderate during nighttime night-time (not significant in EIA terms).	Industry standard methods of mitigation using a bellows (screen and/or a dolly) or the use of programming of piling during periods not favourable to noise propagation will be implemented during piling events in evening & the north of the array during night-time periods.	Slight significance (not significant in EIA terms).	In the event of a noise complaint, onshore noise monitoring will be undertaken at NSR to determine noise levels from piling.
Cumulative operational airborne noise	✗	✓	✗	N/A	O: Low during daytime, evening and nighttime.	O: High	O: Moderate during daytime evening and nighttime (not significant in EIA terms).	None	O: Moderate significance during daytime evening and nighttime (not significant in EIA terms).	N/A

Table 24.7: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for Airborne Noise (Additional Table Provided in Response to RFI 5)

Other Plans and Projects and IDs	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect
Cumulative Impact 1: Temporary cumulative airborne noise from piling					
Arklow Bank Wind Park 1 [OWF_01] Codling Wind Park [OWF_03]	Tier 1	Assessment presented in Section 8.12.1 of Volume II, Chapter 8: Airborne Noise (Revised March 2026)	C: Slight during daytime and evening; Moderate during night-time (not significant in EIA terms).	Industry standard methods of mitigating using a bellows (screen), or the use of programming of piling during periods not favourable to noise propagation will be implemented during piling events in the north of the array during night-time periods.	C: Slight (not significant in EIA terms).
Cumulative Impact 2: Cumulative operational airborne noise					
Arklow Bank Wind Park 1 [OWF_01] Codling Wind Park [OWF_03]	Tier 1	Assessment presented in Section 8.12.2 of Volume II, Chapter 8: Airborne Noise (Revised March 2026)	O: Moderate (not significant in EIA terms).	No additional mitigation required	O: Moderate (not significant in EIA terms).

24.2.4 Benthic Subtidal and Intertidal Ecology

- 24.2.4.1 [Volume II, Chapter 9: Benthic Subtidal and Intertidal Ecology \(Revised March 2026\)](#) provides a full assessment of the potential cumulative impacts of the Proposed Development on benthic subtidal and intertidal ecology. [Table 24.48](#) presents a summary of the potential cumulative effects. [The supplementary cumulative assessment table prepared in accordance with PINS \(2024\) Appendix 2 is provided for this topic in Table 24.9.](#)
- 24.2.4.2 The cumulative impacts assessed include: temporary subtidal habitat loss/disturbance, increased suspended sediment concentrations and associated sediment deposition; injury and/or disturbance from underwater noise and vibration; long term subtidal habitat loss/change; colonisation of hard structures, alteration of seabed habitat arising from effect on physical processes; removal of hard substrates resulting in loss of colonising communities; increased risk of introduction and spread of Invasive and Non-Native Species (INNS); and accidental pollution.
- 24.2.4.3 Overall, it is concluded that there will be no significant cumulative effects from the Proposed Development alongside other projects, plans and activities.

Table 24.48: Summary of potential cumulative environmental impacts, mitigation and monitoring for Benthic, Subtidal and Intertidal Ecology

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Temporary subtidal habitat loss/disturbance	✓	✓	✓	<p>Implementation of an EMP</p> <p>Adherence to the Rehabilitation Schedule.</p> <p>Confirmatory surveys to be undertaken within the Array Area and Cable Corridor and Working Area prior to construction.</p> <p>Adherence to the VMP.</p>	<p>C: Low</p> <p>O: Negligible</p> <p>D: Low</p>	<p>C; O; D: Low for Subtidal Sands’, ‘Subtidal Coarse and Mixed Sediment’ and ‘Moderate Energy Subtidal Rock’ Important Ecological Features (IEFs); Medium for ‘Sabellaria on Stable Sediments’ IEF.</p>	<p>C; D: Slight adverse for Subtidal Sands’, ‘Subtidal Coarse and Mixed Sediment’, ‘Moderate Energy Subtidal Rock’, and Moderate for Sabellaria on Stable Sediments’ IEF (not significant in EIA terms).</p> <p>O: Not significant for Subtidal Sands’, ‘Subtidal Coarse and Mixed Sediment’, ‘Moderate Energy Subtidal Rock’, and Moderate for Sabellaria on Stable Sediments’ IEF (not significant in EIA terms).</p>	None	<p>C: Slight adverse to Moderate (not significant in EIA terms).</p> <p>O: Not Significant (not significant in EIA terms).</p> <p>D: Slight adverse to Moderate (not significant in EIA terms).</p>	None
Increased suspended sediment	✓	✓	✓	Installation of scour protection as defined in Volume	<p>C: Low</p> <p>O: Low</p>	C; O; D: Negligible for ‘Sabellaria on Stable Sediment’	C; O; D: Imperceptible for ‘Sabellaria on Stable	None	C: Imperceptible to Slight	None

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
concentrations and associated sediment deposition				II, Chapter 4: Description of Development (Revised March 2026).	D: Low	and 'Barren Coarse Intertidal Sediment' IEFs. Low for 'Subtidal Sands', 'Subtidal Coarse and Mixed Sediment' and 'Moderate Energy Subtidal Rock' IEFs. Medium for 'Moderately Exposed Intertidal Rock' IEF.	'Sediment' and 'Barren Coarse Intertidal Sediment' IEFs. Slight adverse for 'Subtidal Sands', 'Subtidal Coarse and Mixed Sediment', 'Moderate Energy Subtidal Rock' and 'Moderately Exposed Intertidal Rock' IEFs (not significant in EIA terms).		adverse (not significant in EIA terms). O: Imperceptible to Slight adverse (not significant in EIA terms). D: Imperceptible to Slight adverse (not significant in EIA terms).	
Injury and/or disturbance from underwater noise and vibration	✓	✗	✗	Adherence to soft starts and maximum piling energies as set out in Volume II, Chapter 4: Description of Development (Revised March 2026)	C: Low	C: Low	C: Slight adverse (not significant in EIA terms).	None	C: Slight adverse (not significant in EIA terms).	N/A

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Long-term subtidal habitat loss/change	x	✓	x	<p>Implementation of the EMP</p> <p>Confirmatory surveys to be undertaken within the Array Area and Cable Corridor and Working Area prior to construction.</p> <p>Implementation of the Invasive Non-Indigenous Species Management Plan (INISMP).</p> <p>Cables will be buried where possible and protected where not possible.</p>	O: Low	O: High	O: Moderate (not significant in EIA terms).	None	O: Moderate (not significant in EIA terms).	N/A
Colonisation of hard structures	✓	✓	✓	Implementation of the EMP	C: Medium	C: Low O: Low	C: Slight adverse (not significant in EIA terms).	None	C: Slight adverse (not significant in EIA terms).	N/A

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
				Confirmatory surveys to be undertaken within the Array Area and Cable Corridor and Working Area prior to construction. Adherence to the Rehabilitation Schedule. Implementation of the INISMP	O: Medium D: Medium	D: Low	O: Slight adverse (not significant in EIA terms). D: Slight adverse (not significant in EIA terms).		significant in EIA terms. O: Slight adverse (not significant in EIA terms). D: Slight adverse (not significant in EIA terms).	
Alterations of seabed habitats arising from changes in physical processes	x	✓	x	Volume II, Chapter 4: Description of Development (Revised March 2026) sets out the cable laying techniques, cable burial depths and schedule of O&M activities. Installation of scour protection as defined in Volume II, Chapter 4:	O: Low	O: Negligible	O: Imperceptible (not significant in EIA terms).	None	O: Imperceptible (not significant in EIA terms).	N/A

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
				Description of Development (Revised March 2026).						
Removal of hard structures resulting in loss of colonising communities	✘	✘	✓	Adherence to the Rehabilitation Schedule.	D: Medium	D: Low	D: Slight adverse (not significant in EIA terms).	None	D: Slight adverse (not significant in EIA terms).	N/A
Increased risk of introduction and spread of invasive and non-native species	✓	✓	✓	Adherence to the INISMP.	C: Low O: Low D: Low	C: Negligible to Medium O: Negligible to Medium D: Negligible to Medium	C: Imperceptible to Slight adverse (not significant in EIA terms). O: Imperceptible to Slight adverse (not significant in EIA terms). D: Imperceptible to Slight adverse (not significant in EIA terms).	None	C: Imperceptible to Slight adverse (not significant in EIA terms). O: Imperceptible to Slight adverse (not significant in EIA terms). D: Imperceptible to Slight adverse (not significant in EIA terms).	N/A

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
									significant in EIA terms).	
Accidental pollution	✓	✓	✓	Adherence to the MPCP.	C: Low O: Low D: Low	C: Low to Medium O: Low to Medium D: Low to Medium	C: Slight adverse (not significant in EIA terms). O: Slight adverse (not significant in EIA terms). D: Slight adverse (not significant in EIA terms).	None	C: Slight adverse (not significant in EIA terms). O: Slight adverse (not significant in EIA terms). D: Slight adverse (not significant in EIA terms).	N/A

Table 24.9: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for Benthic, Subtidal and Intertidal Ecology (Additional Table Provided in Response to RFI 5)

Other Plans and Projects and IDs	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect
Cumulative Impact 1: Temporary subtidal habitat loss					
Arklow Phase 1 Power Cable [SC_01] Arklow Bank Wind Park 1 [OWF_01] Arklow Waste Water Treatment Plant [CA_03] Arklow Bank Wind Park 2 OMF [CA_06] HIBERNIA ATLANTIC SEG D [SC_02] Codling Wind Park [OWF_03] Codling Wind Park ECC [SC_03] Dublin Array [OWF_04] Dublin Array ECC [SC_04]	Tier 1	Assessment presented in Section 9.13.2 of Volume II, Chapter 9: Benthic Subtidal and Intertidal Ecology (Revised March 2026)	Tier 1 + Tier 3 C: Slight adverse to Moderate (not significant in EIA terms) O: Not significant D: Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> C: Slight adverse to Moderate (not significant in EIA terms) O: Not significant D: Slight adverse (not significant in EIA terms)
Decommissioning of ABWP1 [OWF_02]	Tier 3				
Cumulative Impact 2: Increased suspended sediment concentrations and associated deposition					
See Tier 1 projects for Cumulative Impact 1	Tier 1	Assessment presented in Section 9.13.3 of Volume II, Chapter 9: Benthic Subtidal and Intertidal Ecology (Revised March 2026)	<u>Tier 1 + Tier 3</u> C, O & D: Imperceptible to Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> C, O & D: Imperceptible to Slight adverse (not significant in EIA terms)
Decommissioning of ABWP1 [OWF_02]	Tier 3				

Cumulative Impact 3: Injury and/or disturbance from underwater noise and vibration

See Tier 1 projects for Cumulative Impact 1	Tier 1	Assessment presented in Section 9.13.4 of Volume II, Chapter 9: Benthic Subtidal and Intertidal Ecology (Revised March 2026)	<u>Tier 1 + Tier 3</u> C: Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> C: Slight adverse (not significant in EIA terms)
Decommissioning of ABWP1 [OWF_02]	Tier 3	Benthic Subtidal and Intertidal Ecology (Revised March 2026)			

Cumulative Impact 4: Long-term subtidal habitat loss/change

See Tier 1 projects for Cumulative Impact 1	Tier 1	Assessment presented in Section 9.13.5 of Volume II, Chapter 9: Benthic Subtidal and Intertidal Ecology (Revised March 2026)	<u>Tier 1 + Tier 3</u> O: Moderate (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> O: Moderate (not significant in EIA terms)
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Cumulative Impact 5: Colonisation of hard structures

See Tier 1 projects for Cumulative Impact 1	Tier 1	Assessment presented in Section 9.13.6 of Volume II, Chapter 9: Benthic Subtidal and Intertidal Ecology (Revised March 2026)	<u>Tier 1 + Tier 3</u> C, O & D: Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> C, O & D: Slight adverse (not significant in EIA terms)
Decommissioning of ABWP1 [OWF_02]	Tier 3	Benthic Subtidal and Intertidal Ecology (Revised March 2026)			

Cumulative Impact 6: Alteration of seabed habitat from effects on physical processes

See Tier 1 projects for Cumulative Impact 1	Tier 1	Assessment presented in Section 9.13.7 of Volume II, Chapter 9: Benthic Subtidal and Intertidal Ecology (Revised March 2026)	<u>Tier 1 + Tier 3</u> O: Imperceptible (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> O: Imperceptible (not significant in EIA terms)
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Cumulative Impact 7: Removal of hard substrates resulting in loss of colonising communities

See Tier 1 projects for Cumulative Impact 1	Tier 1	Assessment presented in Section 9.13.8 of Volume II, Chapter 9: Benthic Subtidal and Intertidal Ecology (Revised March 2026)	<u>Tier 1 + Tier 3</u> D: Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> D: Slight adverse (not significant in EIA terms)
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Cumulative Impact 8: Increased risk and introduction of invasive and non-native species

Arklow Phase 1 Power Cable [SC_01] Arklow Bank Wind Park 1 [OWF_01] Arklow Waste Water Treatment Plant [CA_03] Arklow Bank Wind Park 2 OMF [CA_06] Irish Mussel Seed Company Ltd [AQC_01] HIBERNIA ATLANTIC SEG D [SC_02] Codling Wind Park [OWF_03] Codling Wind Park ECC [SC_03] Dublin Array [OWF_04]	Tier 1	Assessment presented in Section 9.13.9 of Volume II, Chapter 9: Benthic Subtidal and Intertidal Ecology (Revised March 2026)	<u>Tier 1 + Tier 3</u> C, O & D: Imperceptible to Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> C, O & D: Imperceptible to Slight adverse (not significant in EIA terms)
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Dublin Array ECC [SC_04]

Decommissioning of ABWP1 [OWF_02] Tier 3

Cumulative Impact 9: Accidental pollution

See Tier 1 projects for Cumulative Impact 8	Tier 1	Assessment presented in Section 9.13.10 of Volume II, Chapter 9: Benthic Subtidal and Intertidal Ecology (Revised March 2026)	<u>Tier 1 + Tier 3</u>	No additional mitigation required	<u>Tier 1 + Tier 3</u>
Decommissioning of ABWP1 [OWF_02]	Tier 3		C, O & D: Slight adverse (not significant in EIA terms)		C, O & D: Slight adverse (not significant in EIA terms)

24.2.5 Fish, Shellfish and Sea Turtle Ecology

- 24.2.5.1 [Volume II, Chapter 10: Fish, Shellfish and Sea Turtle Ecology \(Revised March 2026\)](#) provides a full assessment of the potential cumulative impacts of the Proposed Development on fish, shellfish and sea turtle ecology. [Table 24.510](#) [Table 24.510](#) presents a summary of the potential cumulative effects. [The supplementary cumulative assessment table prepared in accordance with PINS \(2024\) Appendix 2 is provided for this topic in Table 24.11.](#)
- 24.2.5.2 The cumulative impacts assessed include: temporary habitat loss/disturbance; increased suspended sediment and associated deposition; injury and/or disturbance to fish and shellfish from underwater noise and vibration; collision risk to basking shark and sea turtles from vessel activities; accidental pollution; long-term habitat loss; alterations of seabed habitats arising from changes in physical processes and temporary changes in Electromagnetic Fields (EMF) from subsea electrical cabling.
- 24.2.5.3 Overall, it is concluded that there will be no significant cumulative effects from the Proposed Development alongside other projects, plans and activities.

Table 24.510: Summary of potential cumulative environmental impacts, mitigation and monitoring for Fish, Shellfish and Sea Turtle Ecology

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Temporary habitat loss/disturbance	✓	✓	✓	Development of and adherence to a Rehabilitation Schedule. Confirmatory Survey to be undertaken within the Array Area and Cable Corridor and Working Area to verify the presence/absence of any areas of reef habitat and blue mussel beds.	C: Low O: Low D: Low	C: Negligible to Medium O: Negligible to Medium D: Negligible to Medium	C: Imperceptible to Slight adverse (not significant in EIA terms). O: Imperceptible to Slight adverse Not significant (not significant in EIA terms). D: Imperceptible to Slight adverse (not significant in EIA terms).	None	C: Imperceptible to Slight adverse (not significant in EIA terms). O: Imperceptible to Not significant (not significant in EIA terms). D: Imperceptible to Slight adverse (not significant in EIA terms).	None
Increased suspended sediment concentrations and associated deposition.	✓	✓	✓	Development of and adherence to a Rehabilitation Schedule. Management of bentonite spills	C: Low O: Low D: Low	C: Negligible to Low O: Negligible to Low D: Negligible to Low	C: Imperceptible to Slight adverse (not significant in EIA terms). O: Imperceptible to Slight adverse	None	C: Imperceptible to Slight adverse (not significant in EIA terms). O: Imperceptible to Slight adverse	None

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
				via good working practises. Scour protection will be installed as described in Volume II, Chapter 4: Description of Development (Revised March 2026).			(not significant in EIA terms). D: Imperceptible to Slight adverse (not significant in EIA terms).		(not significant in EIA terms). D: Imperceptible to Slight adverse (not significant in EIA terms).	
Injury and/or disturbance to fish and shellfish from underwater noise and vibration	✓	✓	✗	Development of and adherence to a Rehabilitation Schedule. Implementation of and adherence to Marine Mammal Mitigation Plan (MMMP). Adherence to soft starts and maximum piling energies as set out in Volume II,	C: Negligible to Medium O: Negligible	C: Low to Medium O: Low to Medium	C: Not significant to Moderate adverse (not significant in EIA terms). O: Not significant in EIA terms.	None	C: Not significant to Moderate adverse (not significant in EIA terms). O: Not significant in EIA terms.	None

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
				Chapter 4: Description of Development (Revised March 2026).						
Injury and/or disturbance to basking shark and sea turtles from increased vessel activities	✓	✓	✓	Commitment to the maximum vessel numbers as set out in Volume II, Chapter 4: Description of Development (Revised March 2026). Development of and adherence to a Rehabilitation Schedule. Development and issue of an Environmental VMP to all project vessel operators	C: Negligible O: Negligible D: Negligible	C: High O: High D: High	C: Not significant in EIA terms O: Not significant in EIA terms D: Not significant in EIA terms	None	C; O; D: Not significant in EIA terms	None

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Accidental pollution from vessels, vehicles, equipment and machinery	✓	✓	✓	<p>Development of and adherence to a Rehabilitation Schedule.</p> <p>Development of and implementation of an EMP.</p> <p>A Marine Pollution Contingency Plan will be included in the EMP.</p> <p>Development of and implementation of an EMP.</p> <p>A MPCP will be included in the EMP.</p>	<p>C: Low</p> <p>O: Low</p> <p>D: Low</p>	<p>C: Low to Medium</p> <p>O: Low to Medium</p> <p>D: Low to Medium</p>	<p>C: Slight adverse (not significant in EIA terms).</p> <p>O: Slight adverse (Not significant in EIA terms).</p> <p>D: Slight adverse (not significant in EIA terms).</p>	None	<p>C: Slight adverse (not significant in EIA terms).</p> <p>O: Slight adverse (Not significant in EIA terms).</p> <p>D: Slight adverse (not significant in EIA terms).</p>	None
Long term habitat loss	✗	✓	✗	Cables will be buried where possible and protected where not possible.	O: Low	O: Negligible to Low	O: Imperceptible to Slight adverse significance (not significant in EIA terms).	None	O: Imperceptible to Slight adverse significance (not significant in EIA terms).	None

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
				Operational and Maintenance asset monitoring commitments include survey of seabed and assets every 6 months for the first two years and annually thereafter (Volume II: Chapter 4: Description of Development) (Revised March 2026)).						
Alterations of seabed habitats arising from changes in physical processes	x	✓	x	Development of and adherence to a Rehabilitation Schedule. Scour protection.	O: Low	O: Negligible to Low	O: Imperceptible to Slight adverse significance (not significant in EIA terms).	None	O: Imperceptible to Slight adverse significance (not significant in EIA terms).	None
Temporary changes in EMF from subsea	x	✓	x	Cables will be buried where possible and	O: Low	O: Low	O: Slight adverse significance (not	None	O: Slight adverse significance (not	None

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
electrical cabling				protected where not possible.			significant in EIA terms).		significant in EIA terms).	

Table 24.11: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for Fish, Shellfish and Sea Turtle Ecology (Additional Table Provided in Response to RFI 5)

Other Plans and Projects and IDs	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect
Cumulative Impact 1: Temporary habitat loss					
Arklow Phase 1 Power Cable [SC_01] Arklow Bank Wind Park 1 [OWF_01] Codling Wind Park [OWF_03] HIBERNIA ATLANTIC SEG D [SC_02] Codling Wind Park ECC [SC_03] Dublin Array [OWF_04] Dublin Array ECC [SC_04] UK-IRELAND 2 CROSSING [SC_06] ESAT 2 [SC_07] CeltixConnect - Sea Fibre Networks [SC_09] HIBERNIA ATLANTIC SEG C [SC_10] ZAYO Emerald Bridge One [SC_12] SIRIUS SOUTH [SC_14] Rockabill Telecoms Cable [SC_15] North Irish Sea Array [OWF_05] UK-IRELAND CROSSING 1 [SC_16] East West Interconnector [SC_17] SOLAS [SC_20] Havhingsten Telecoms Cable [SC_22] NISA ECC [SC_24]	Tier 1	Assessment presented in Section 10.12.2 of Volume II, Chapter 10, Fish, Shellfish and Sea Turtle Ecology (Revised March 2026)	Tier 1 + Tier 3 C: Imperceptible to Slight adverse (not significant in EIA terms) O: Imperceptible to Not significant (not significant in EIA terms) D: Imperceptible to Slight adverse (not significant in EIA terms)	No additional mitigation required	Tier 1 + Tier 3 C: Imperceptible to Slight adverse (not significant in EIA terms) O: Imperceptible to Not significant (not significant in EIA terms) D: Imperceptible to Slight adverse (not significant in EIA terms)

Decommissioning of ABWP1 [OWF_02] Tier
 Mares Connect [SC_05] 3
 Rosslare Euro Port (Rosslare Offshore
 Renewable Energy Hub) [S&P_04]

Cumulative Impact 2: Increased suspended sediment concentrations and associated sediment deposition

Arklow Phase 1 Power Cable [SC_01] Arklow Bank Wind Park 1 [OWF_01] Codling Wind Park [OWF_03] HIBERNIA ATLANTIC SEG D [SC_02] Codling Wind Park ECC [SC_03] Dublin Array [OWF_04] Dublin Array ECC [SC_04] UK-IRELAND 2 CROSSING [SC_06] ESAT 2 [SC_07] CeltixConnect - Sea Fibre Networks [SC_09] HIBERNIA ATLANTIC SEG C [SC_10] ZAYO Emerald Bridge One [SC_12] SIRIUS SOUTH [SC_14] Rockabill Telecoms Cable [SC_15] North Irish Sea Array [OWF_05] UK-IRELAND CROSSING 1 [SC_16] East West Interconnector [SC_17] SOLAS [SC_20] Havhingsten Telecoms Cable [SC_22] NISA ECC [SC_24] Dublin Port Company [DAS_03] Dublin Port Company [DAS_04] Wexford County Council [DAS_08]	Tier 1	Assessment presented in Section 10.12.3 of Volume II, Chapter 10, Fish, Shellfish and Sea Turtle Ecology (Revised March 2026)	<u>Tier 1 + Tier 3</u> C, O & D: Imperceptible to Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> C, O & D: Imperceptible to Slight adverse (not significant in EIA terms)
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Decommissioning of ABWP1 [OWF_02]	Tier
Mares Connect [SC_05]	3
Rosslare Euro Port (Rosslare Offshore Renewable Energy Hub) [S&P_04]	

Cumulative Impact 3: Injury and/or disturbance to fish and shellfish from underwater noise and vibration

See Tier 1 projects for Cumulative Impact 1	Tier 1	Assessment presented in Section 10.12.4 of Volume II, Chapter 10, Fish, Shellfish and Sea Turtle Ecology (Revised March 2026)	<u>Tier 1 + Tier 3</u>	No additional mitigation required	<u>Tier 1 + Tier 3</u>
			C: Not significant to Moderate adverse (not significant in EIA terms).		C: Not significant to Moderate adverse (not significant in EIA terms).
See Tier 3 projects for Cumulative Impact 1	Tier 3		O: Not significant		O: Not significant

Cumulative Impact 4: Injury and/or disturbance to basking shark and sea turtles from increased vessel activities

See Tier 1 projects for Cumulative Impact 2	Tier 1	Assessment presented in Section 10.12.5 of Volume II, Chapter 10, Fish, Shellfish and Sea Turtle Ecology (Revised March 2026)	<u>Tier 1 + Tier 3</u>	No additional mitigation required	<u>Tier 1 + Tier 3</u>
			C, O & D: Not significant		C, O & D: Not significant
See Tier 3 projects for Cumulative Impact 2	Tier 3				

Cumulative Impact 5: Accidental pollution

See Tier 1 projects for Cumulative Impact 1	Tier 1	Assessment presented in Section 10.12.6 of Volume II, Chapter 10, Fish, Shellfish and Sea Turtle Ecology (Revised March 2026)	<u>Tier 1 + Tier 3</u>	No additional mitigation required	<u>Tier 1 + Tier 3</u>
			C & D: Slight adverse (not significant in EIA terms)		C & D: Slight adverse (not significant in EIA terms)
See Tier 3 projects for Cumulative Impact 2	Tier 3		O: Not significant		O: Not significant

Cumulative Impact 6: Long term habitat loss

See Tier 1 projects for Cumulative Impact 1	Tier 1	Assessment presented in Section 10.12.7 of Volume II, Chapter 10, Fish, Shellfish and Sea Turtle Ecology (Revised March 2026)	<u>Tier 1 + Tier 3</u> O: Imperceptible to Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> O: Imperceptible to Slight adverse (not significant in EIA terms)
Mares Connect [SC_05] Rosslare Euro Port (Rosslare Offshore Renewable Energy Hub) [S&P_04]	Tier 3	Assessment presented in Section 10.12.7 of Volume II, Chapter 10, Fish, Shellfish and Sea Turtle Ecology (Revised March 2026)			

Cumulative Impact 7: Alterations of seabed habitats arising from changes in physical processes

See Tier 1 projects for Cumulative Impact 1	Tier 1	Assessment presented in Section 10.12.8 of Volume II, Chapter 10, Fish, Shellfish and Sea Turtle Ecology (Revised March 2026)	<u>Tier 1 + Tier 3</u> O: Imperceptible to Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> O: Imperceptible to Slight adverse (not significant in EIA terms)
Mares Connect [SC_05] Rosslare Euro Port (Rosslare Offshore Renewable Energy Hub) [S&P_04]	Tier 3	Assessment presented in Section 10.12.8 of Volume II, Chapter 10, Fish, Shellfish and Sea Turtle Ecology (Revised March 2026)			

Cumulative Impact 8: Temporary Changes in Electromagnetic Fields (EMF) from subsea electrical cabling

See Tier 1 projects for Cumulative Impact 1	Tier 1	Assessment presented in Section 10.12.9 of Volume II, Chapter 10, Fish, Shellfish and Sea Turtle Ecology (Revised March 2026)	<u>Tier 1 + Tier 3</u> O: Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> O: Slight adverse (not significant in EIA terms)
Mares Connect [SC_05]	Tier 3	Assessment presented in Section 10.12.9 of Volume II, Chapter 10, Fish, Shellfish and Sea Turtle Ecology (Revised March 2026)			

24.2.6 Marine Mammals

- 24.2.6.1 [Volume II, Chapter 11: Marine Mammals \(Revised March 2026\)](#) provides a full assessment of the potential cumulative impacts of the Proposed Development on marine mammals. [Table 24.612](#) presents a summary of the potential cumulative effects. [The supplementary cumulative assessment table prepared in accordance with PINS \(2024\) Appendix 2 is provided for this topic in Table 24.13.](#)
- 24.2.6.2 The cumulative impacts assessed include the disturbance to marine mammals from underwater noise.
- 24.2.6.3 Overall, it is concluded that there will be no significant cumulative effects from the Proposed Development alongside other projects, plans and activities.

Table 24.612: Summary of potential cumulative environmental impacts, mitigation and monitoring for Marine Mammals

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Disturbance to marine mammals from underwater noise	✓	✗	✗	A MMMP will be implemented (see Volume III, Appendix 25.2: Marine Mammal Mitigation Plan (Revised March 2026)).	C: Medium adverse for harbour porpoise, bottlenose dolphin, Risso's dolphin, common dolphin, minke whale, grey seal, and harbour seal.	C: Low	C: Slight adverse (not significant in EIA terms).	None	C: Slight adverse (not significant in EIA terms).	Monitoring has been proposed to understand the potential for behavioural disturbance to marine mammals during piling. Such monitoring will include both visual monitoring and the use of Passive Acoustic Monitoring (PAM). The details of this monitoring, to be implemented as part of an Environmental Monitoring commitments are set out in Volume II, Chapter 25: Summary of Factored in Measures, Mitigation and Monitoring (Revised March 2026).

Table 24.13: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for Marine Mammals (Additional Table Provided in Response to RFI 5)

Other Plans and Projects and IDs	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect
Cumulative Impact 1: Temporary habitat loss					
Codling Wind Park [OWF_03] Dublin Array [OWF_04] North Irish Sea Array [OWF_05] Oriel [OWF_08] Erebus Floating Wind Demo [OWF_09] Awel y Môr [OWF_13] Morgan [OWF_18] North Hoyle [OWF_19] White Cross [OWF_21] Burbo Bank [OWF_27] Walney 1 [OWF_30] TwinHub [OWF_37] Neart Na Gaoithe [OWF_52] Rampion 2 [OWF_57] Inch Cape [OWF_58] Seagreen Phase 1 [OWF_64] Dudgeon Extension [OWF_65] Saint-Brieuc [OWF_69] Hornsea Project Two [OWF_73] Kentish Flats [OWF_72] Courseulles-sur-mer [OWF_80] Scroby Sands [OWF_82] Fécamp [OWF_84]	Tier 1	Assessment presented in Section 11.12.2 of Volume II, Chapter 11, Marine Mammals (Revised March 2026)	Tier 1 + Tier 2 + Tier 3 C: Slight adverse (not significant in EIA terms)	No additional mitigation required	Tier 1 + Tier 2 + Tier 3 C: Slight adverse (not significant in EIA terms)

Dogger Bank - Creyke Beck B [OWF_87]
Dogger Bank - Creyke Beck A [OWF_90]
Dieppe Le Tréport [OWF_100]
Dogger Bank - Teesside B (Sofia)
[OWF_101]
East Anglia Three [OWF_107]
Dunkerque [OWF_109]
Moray West [OWF_110]
Groix et Belle-Île [OWF_114]
Dogger Bank C - Teesside A [OWF_115]
Windenergiegebied Borssele Noordzijde
/ Zuidzijde (geographic planning zones)
[OWF_121]
Borssele [OWF_123]
OWF Borssele IV [OWF_125]
SeaStar [OWF_134]
Borssele Kavel III [OWF_137]
Northwind [OWF_139]
OWF Borssele I [OWF_141]
Hollandse Kust F [OWF_148]
Borssele Kavel II [OWF_149]
OWF Borssele II [OWF_150]
Hollandse Kust (West) [OWF_159]
Saint-Nazaire [OWF_166]
HKZ Kavel II [OWF_174]
HKZ Kavel I – IV [OWF_178]
Hollandse Kust (Noord) [OWF_179]
OWF Luchterduinen [OWF_182]
OWF Prinses Amalia [OWF_183]
Iles d'Yeu et de Noirmoutier [OWF_185]
OWF Egmond aan Zee [OWF_189]
ZeeEnergie / Gemini II [OWF_207]
Veja Mate [OWF_208]

EnBW He Dreiht [OWF_226]
 Riffgat [OWF_234]
 Borkum Riffgrund 2 [OWF_236]
 Trianel Windpark Borkum Phase 1 [OWF_237]
 Merkur Offshore (MEG Offshore I) [OWF_241]
 Gode Wind 01 [OWF_249]
 Greenlink Interconnector [SC_23]

<p>Mona [OWF_11] Forthwind [OWF_45] Berwick Bank [OWF_55] Parc éolien posé au large de la Normandie (AO4) [OWF_59] Seagreen Phase 1A [OWF_66] East Anglia Two [OWF_95] Hornsea Project Three [OWF_96] Norfolk Vanguard West [OWF_97] East Anglia One North [OWF_99] Norfolk Boreas [OWF_104] Norfolk Vanguard East [OWF_106] Salamander [OWF_112] Borssele Kavel V [OWF_144] Pentland Floating [OWF_164] Celtic Interconnector [SC_31] Holyhead Deep [OOE_01] West Anglesey Demonstration Zone [OOE_03]</p>	<p>Tier 2</p>	<p>Assessment presented in Section 11.12.2 of Volume II, Chapter 11, Marine Mammals (Revised March 2026)</p>	<p><u>Tier 1 + Tier 2 + Tier 3</u> C: Slight adverse (not significant in EIA terms)</p>	<p>No additional mitigation required</p>	<p><u>Tier 1 + Tier 2 + Tier 3</u> C: Slight adverse (not significant in EIA terms)</p>
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Gwynt Glas [OWF_10] Llyr 1 [OWF_12] Llyr 2 [OWF_14] Morecambe [OWF_20] Isle of Man (Moor Vannin) [OWF_22] North Channel Wind 2 [OWF_31] North Channel Wind 1 [OWF_34] Machair [OWF_40] Outer Dowsing [OWF_60] Centre-Manche 1 [OWF_63] Centre-Manche 2 [OWF_68] Dogger Bank South (West) [OWF_77] Morven [OWF_79] Bowdun [OWF_85] Dogger Bank South (East) [OWF_86] Ossian [OWF_88] North Falls [OWF_92] Five Estuaries [OWF_98] Bellrock [OWF_102] Muir Mhòr [OWF_111] Spiorad na Mara [OWF_126] Caledonia [OWF_127] Sud de la Bretagne Extension [OWF_129] Aspen [OWF_152] Green Volt [OWF_153] Hollandse Kust D [OWF_154] Hollandse Kust West Zuidelijk Deel (HK-w-z) [OWF_155] Gebied 2 Noord (2-n) [OWF_156] Cenos [OWF_165] Marram [OWF_167]	Tier 3	Assessment presented in Section 11.12.2 of Volume II, Chapter 11, Marine Mammals (Revised March 2026)	<u>Tier 1 + Tier 2 + Tier 3</u> C: Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 2 + Tier 3</u> C: Slight adverse (not significant in EIA terms)
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Havbredey [OWF_169]
Stromar [OWF_170]
West of Orkney [OWF_171]
Buchan [OWF_172]
Hollandse Kust E [OWF_173]
Les deux oles [OWF_186]
Culzean [OWF_187]
Ayre [OWF_188]
Ten Noorden van de Wadden
[OWF_197]
N-9.1 [OWF_202]
N-9.4 [OWF_203]
EN6 [OWF_204]
N-9.2 [OWF_210]
EN7 [OWF_223]
Borkum Riffgrund West II [OWF_227]
EN8 [OWF_228]
EN13 [OWF_238]
Nordsren II vest [OWF_239]
EN15 [OWF_194]
V317 [OWF_321]
Mares Connect [SC_05]
Erebus/Valorous Potential Cable Route
[SC_26]
LirIC [SC_60]
Pembrokeshire Demonstration Zone
[OOE_11]
Rosslare Euro Port (Rosslare Offshore
Renewable Energy Hub) [S&P_04]
Port of Waterford – Offshore Renewable
Energy Capable Terminal (Belview)
[CA_72]

24.2.7 Offshore Ornithology

- 24.2.7.1 [Volume II, Chapter 12: Offshore Ornithology \(Revised March 2026\)](#) provides a full assessment of the potential cumulative impacts of the Proposed Development on offshore ornithology. ~~Table 24.714~~ [Table 24.714](#) presents a summary of the potential cumulative effects. [The supplementary cumulative assessment table prepared in accordance with PINS \(2024\) Appendix 2 is provided for this topic in Table 24.15.](#)
- 24.2.7.2 The cumulative impacts assessed include: disturbance and displacement; indirect disturbance and displacement resulting from changes to prey species and habitats; and collision risk.
- 24.2.7.3 Overall, it is concluded that there will be no significant cumulative effects from the Proposed Development alongside other projects, plans and activities.

Table 24.714: Summary of potential cumulative environmental impacts, mitigation and monitoring for Offshore Ornithology

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Cumulative direct disturbance and displacement	✓	✓	✓	Environmental Vessel Management Plan (EVMP).	C: Negligible to Low O: Low to Medium D: Negligible	C: High O: Medium D: Medium to High	C: Negligible Not significant to Moderate adverse (not significant in EIA terms). O: Slight to Moderate adverse (not significant in EIA terms). D: Not significant.	None	Negligible C: Not significant to Moderate adverse (not significant in EIA terms). O: Slight to Moderate adverse (not significant in EIA terms). D: Not significant.	N/A
Cumulative indirect disturbance and displacement	✓	✓	✓	Best practice vessel and marine machinery operation.	C: Negligible O: Negligible D: Negligible	C: Low to High O: Low to High D: Low to High	C: Not significant. O: Not significant. D: Not significant.	None	C: Not significant. O: Not significant. D: Not significant.	N/A
Cumulative collision risk	✗	✓	✗	Lower blade tip height of 37m from Lowest Astronomical Tide (LAT)	O: Negligible to Low	O: Low to Medium	O: Not significant to Slight Moderate adverse (not significant in EIA terms).	None	O: Not significant to Slight Moderate adverse (not significant in EIA terms).	N/A

Table 24.15: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for Offshore Ornithology (Additional Table Provided in Response to RFI 5)

Other Plans and Projects and IDs	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect
Cumulative Impact 1: Disturbance and displacement					
Codling Wind Park [OWF_03] Dublin Array [OWF_04] North Irish Sea Array [OWF_05] Oriel [OWF_08] Rhyl Flats [OWF_15] Gwynt y Mor [OWF_16] North Hoyle [OWF_19] Burbo Bank Extension [OWF_23] Walney Extension 3 [OWF_25] Walney Extension 4 [OWF_26] Burbo Bank [OWF_27] West of Duddon Sands [OWF_29] Walney 2 [OWF_28] Walney 1 [OWF_30] Ormonde [OWF_32] Barrow [OWF_33] Robin Rigg West [OWF_35] Robin Rigg East [OWF_36]	Tier 1	Assessment presented in Section 12.11.2 of Volume II, Chapter 12, Offshore Ornithology (Revised March 2026)	<u>Tier 1 + Tier 2 + Tier 3</u> C: Not significant to Moderate (not significant in EIA terms) O: Slight adverse (not significant in EIA terms) D: Not significant	No additional mitigation required	<u>Tier 1 + Tier 2 + Tier 3</u> C: Not significant to Moderate (not significant in EIA terms) O: Slight adverse (not significant in EIA terms) D: Not significant
Erebus Floating Wind Demo [OWF_09] Mona [OWF_11] Awel y Môr [OWF_13] Morgan [OWF_18] Morecambe [OWF_20]	Tier 2				

White Cross [OWF_21]
TwinHub [OWF_37]

Decommissioning of ABWP1 [OWF_02] Tier 3
Isle of Man (Mooir Vannin) [OWF_22]
Valorous Offshore Wind Farm
[OWF_392]

Cumulative Impact 2: Indirect disturbance and displacement resulting from changes to prey and habitats

See Tier 1 projects for Cumulative Impact 1	Tier 1	Assessment presented in Section 12.11.3 of	<u>Tier 1 + Tier 2 + Tier 3</u>	No additional mitigation required	<u>Tier 1 + Tier 2 + Tier 3</u>
See Tier 2 projects for Cumulative Impact 1	Tier 2	Volume II, Chapter 12, Offshore Ornithology (Revised March 2026)	C, O & D: Not significant		C, O & D: Not significant
See Tier 3 projects for Cumulative Impact 1	Tier 3				

Cumulative Impact 3: Collision risk

See Tier 1 projects for Cumulative Impact 1	Tier 1	Assessment presented in Section 12.11.4 of	<u>Tier 1 + Tier 2 + Tier 3</u>	No additional mitigation required	<u>Tier 1 + Tier 2 + Tier 3</u>
See Tier 2 projects for Cumulative Impact 1	Tier 2	Volume II, Chapter 12, Offshore Ornithology (Revised March 2026)	O: Not significant to Moderate (not significant in EIA terms)		O: Not significant to Moderate (not significant in EIA terms)
See Tier 3 projects for Cumulative Impact 1	Tier 3				

24.2.8 Offshore Bats

- 24.2.8.1 [Volume II, Chapter 13: Offshore Bats \(Revised March 2026\)](#) provides a full assessment of the potential cumulative impacts of the Proposed Development on offshore bats. [Table 24.816](#) [Table 24.816](#) presents a summary of the potential cumulative effects. [The supplementary cumulative assessment table prepared in accordance with PINS \(2024\) Appendix 2 is provided for this topic in Table 24.17.](#)
- 24.2.8.2 The cumulative impacts assessed include: disturbance and displacement due to anthropogenic noise; disturbance and displacement due to increased vessel activity and infrastructure presence; disturbance and displacement due to Artificial Lighting at Night (ALAN); indirect disturbance and displacement resulting from changes to prey; and collision and barotrauma.
- 24.2.8.3 Overall, it is concluded that there will be no significant cumulative effects from the Proposed Development alongside other projects, plans and activities.

Table 24.816: Summary of potential cumulative environmental impacts, mitigation and monitoring for Offshore Bats

Description of impact	Phase			Factored-in measures	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D					
Disturbance and displacement due to anthropogenic noise	✓	✓	✓	N/A	No significant cumulative effects.	None	No significant cumulative effects.	The Proposed Development is committed to participating in the 'East Coast Monitoring Group' (ECMG), to discuss and agree potential strategic monitoring initiatives in relation to offshore bats. The need for strategic monitoring and the level of participation by individual projects will be determined by the conclusions of the EIAR process, in consultation with statutory and technical stakeholders, and with a focus on validation and evidence gathering.
Disturbance and displacement due to increased vessel activity and infrastructure presence	✓	✓	✓	N/A	No significant cumulative effects.	None	No significant cumulative effects.	The Proposed Development is committed to participating in the ECMG, to discuss and agree potential strategic monitoring initiatives in relation to offshore bats. The need for strategic monitoring and the level of participation by individual projects will be determined by the conclusions of the EIAR process, in consultation with statutory and technical stakeholders, and with a focus on validation and evidence gathering.
Disturbance and displacement due to ALAN	✓	✓	✓	N/A	No significant cumulative effects.	None	No significant cumulative effects.	The Proposed Development is committed to participating in the ECMG, to discuss and agree potential strategic monitoring initiatives in relation to offshore bats. The need for strategic monitoring and the level of participation by individual projects will be determined by the conclusions of the EIAR process, in consultation with statutory and

Description of impact	Phase			Factored-in measures	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D					
Indirect disturbance and displacement resulting from changes to prey	✓	✓	✓	N/A	No significant cumulative effects.	None	No significant cumulative effects.	technical stakeholders, and with a focus on validation and evidence gathering. The Proposed Development is committed to participating in the ECMG, to discuss and agree potential strategic monitoring initiatives in relation to offshore bats. The need for strategic monitoring and the level of participation by individual projects will be determined by the conclusions of the EIAR process, in consultation with statutory and technical stakeholders, and with a focus on validation and evidence gathering.
Collision and Barotrauma	x	✓	x	Lower blade tip height of 37m from LAT. Number of turbines. Rehabilitation Schedule	No significant cumulative effects.	None	No significant cumulative effects.	The Proposed Development is committed to participating in the ECMG, to discuss and agree potential strategic monitoring initiatives in relation to offshore bats. The need for strategic monitoring and the level of participation by individual projects will be determined by the conclusions of the EIAR process, in consultation with statutory and technical stakeholders, and with a focus on validation and evidence gathering.

Table 24.17: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for Offshore Bats (Additional Table Provided in Response to RFI 5)

Other Plans and Projects and IDs	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect
Cumulative Impact 1: Disturbance and displacement due to anthropogenic noise					
ABWP2 OGI [CA_01] ABWP2 OMF [CA_06] Codling Wind Park [OWF_03] Dublin Array [OWF_04] North Irish Sea Array [OWF_05] Oriel [OWF_08]	Tier 1	Assessment presented in Section 13.10.2 of Volume II, Chapter 13, Offshore Bats (Revised March 2026)	<u>Tier 1</u> C: No significant cumulative effects O: No significant cumulative effects D: No significant cumulative effects	No additional mitigation required	<u>Tier 1</u> C: No significant cumulative effects O: No significant cumulative effects D: No significant cumulative effects
Decommissioning of ABWP1 [OWF_02]	Tier 3		<u>Tier 1 + Tier 3</u> C: No significant cumulative effects O: No significant cumulative effects		<u>Tier 1 + Tier 3</u> C: No significant cumulative effects O: No significant cumulative effects
Cumulative Impact 2: Disturbance and displacement due to increased vessel activity and infrastructure presence					
ABWP2 OGI [CA_01] ABWP2 OMF [CA_06] Codling Wind Park [OWF_03] Dublin Array [OWF_04] North Irish Sea Array [OWF_05] Oriel [OWF_08]	Tier 1	Assessment presented in Section 13.10.3 of Volume II, Chapter 13, Offshore Bats (Revised March 2026)	<u>Tier 1</u> C: No significant cumulative effects O: No significant cumulative effects D: No significant cumulative effects	No additional mitigation required	<u>Tier 1</u> C: No significant cumulative effects O: No significant cumulative effects D: No significant cumulative effects

Decommissioning of ABWP1 [OWF_02]	Tier 3		<u>Tier 1 + Tier 3</u> C: No significant cumulative effects O: No significant cumulative effects		<u>Tier 1 + Tier 3</u> C: No significant cumulative effects O: No significant cumulative effects
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Cumulative Impact 3: Disturbance and displacement due to ALAN

ABWP2 OGI [CA_01] ABWP2 OMF [CA_06] Codling Wind Park [OWF_03] Dublin Array [OWF_04] North Irish Sea Array [OWF_05] Oriel [OWF_08]	Tier 1	Assessment presented in Section 13.10.4 of Volume II, Chapter 13, Offshore Bats (Revised March 2026)	<u>Tier 1</u> C: No significant cumulative effects O: No significant cumulative effects D: No significant cumulative effects	No additional mitigation required	<u>Tier 1</u> C: No significant cumulative effects O: No significant cumulative effects D: No significant cumulative effects
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Decommissioning of ABWP1 [OWF_02]	Tier 3		<u>Tier 1 + Tier 3</u> C: No significant cumulative effects O: No significant cumulative effects		<u>Tier 1 + Tier 3</u> C: No significant cumulative effects O: No significant cumulative effects
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Cumulative Impact 4: Indirect disturbance and displacement resulting from changes to prey

ABWP2 OGI [CA_01] ABWP2 OMF [CA_06] Codling Wind Park [OWF_03] Dublin Array [OWF_04] North Irish Sea Array [OWF_05] Oriel [OWF_08]	Tier 1	Assessment presented in Section 13.10.5 of Volume II, Chapter 13, Offshore Bats (Revised March 2026)	<u>Tier 1</u> C: No significant cumulative effects O: No significant cumulative effects D: No significant cumulative effects	No additional mitigation required	<u>Tier 1</u> C: No significant cumulative effects O: No significant cumulative effects D: No significant cumulative effects
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Decommissioning of ABWP1 [OWF_02]	Tier 3		<u>Tier 1 + Tier 3</u> C: No significant cumulative effects O: No significant cumulative effects		<u>Tier 1 + Tier 3</u> C: No significant cumulative effects O: No significant cumulative effects
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Cumulative Impact 5: Collision and Barotrauma

Codling Wind Park [OWF_03] Dublin Array [OWF_04] North Irish Sea Array [OWF_05] Oriel [OWF_08]	Tier 1	Assessment presented in Section 13.10.6 of Volume II, Chapter 13, Offshore Bats (Revised March 2026)	<u>Tier 1</u> O: No significant cumulative effects	No additional mitigation required	<u>Tier 1</u> O: No significant cumulative effects
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24.2.9 Commercial Fisheries and Aquaculture

- 24.2.9.1 [Volume II, Chapter 14: Commercial Fisheries and Aquaculture \(Revised March 2026\)](#) provides a full assessment of the potential cumulative impacts of the Proposed Development on commercial fisheries and aquaculture. [Table 24.918](#) [Table 24.918](#) presents a summary of the potential cumulative effects. [The supplementary cumulative assessment table prepared in accordance with PINS \(2024\) Appendix 2 is provided for this topic in Table 24.19.](#)
- 24.2.9.2 The cumulative impacts assessed include: loss of grounds or restricted access to fishing grounds within the Array Area; loss of grounds or restricted access to fishing grounds within the Cable Corridor and Working area; displacement of fishing activity into other areas; and effects on commercially exploited species.
- 24.2.9.3 Overall, it is concluded that there will be no significant cumulative effects from the Proposed Development alongside other projects, plans and activities.

Table 24.918: Summary of potential cumulative environmental impacts, mitigation and monitoring for Commercial Fisheries and Aquaculture

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Loss of grounds or restricted access to fishing grounds within the Array Area	✓	✓	✓	Fisheries Management and Mitigation Strategy (FMMS); Fisheries Liaison Officer (FLO); Offshore Fisheries Liaison Officer (OFLO); CBRA; Advisory safety zones; Construction Programme and Construction Methodology; EMP; Pre and Post-Construction surveys; Operational and Maintenance Activities Methodology; Lighting and Marking Plan;	C: Negligible to Low O: Negligible to Low D: Negligible to Low	C: Low to Medium O: Low to Medium D: Low to Medium	C: Not Significant to Slight adverse. O: Not Significant to Slight adverse. D: Not Significant to Slight adverse.	None	C; O; D: Not Significant to Slight adverse (not significant in EIA terms).	None

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
				Rehabilitation Schedule						
Loss of grounds or restricted access to fishing grounds within the Cable Corridor and Working Area	✓	✓	✓	FMMS; FLO; OFLO; CBRA; Advisory safety zones; Construction Programme and Construction Methodology; EMP; Pre and Post-Construction surveys; Operational and Maintenance Activities Methodology; Lighting and Marking Plan; Rehabilitation Schedule	C: Negligible to Low O: Negligible to Low D: Negligible to Low	C: Low to Medium O: Low to Medium D: Low to Medium	C: Not Significant to Slight adverse. O: Not Significant to Slight adverse. D: Not Significant to Slight adverse.	None	C; O; D: Not Significant to Slight adverse (not significant in EIA terms).	None
Displacement of fishing activity into other areas	✓	✓	✓	FMMS; FLO; OFLO; CBRA; Advisory safety zones; Construction Programme	C: Negligible to Low LowMedium	C: Low to Medium O: Low to Medium D: Low to Medium	C: Not Significant to Slight adverse (significant in EIA terms). SlightModerate	NoneLiaison with Phase 1 developers and participation in	C; O; D: Not Significant to Slight adverse (not	None

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
				and Construction Methodology; EMP; Pre and Post-Construction surveys; Operational and Maintenance Activities Methodology; Rehabilitation Schedule	O: Negligible to Low D: Negligible to Low		O: Not Significant to Slight adverse. D: Not Significant to Slight adverse.	Seafood/ORE Working Group	significant in EIA terms).	
Effects on commercially exploited species	✓	✓	✓	As per Volume II, Chapter 10: Fish, Shellfish and Sea Turtle Ecology Chapter (Revised March 2026)	C: Low O: Low D: Low	C: Low to Medium O: Low to Medium D: Low to Medium	C: Slight adverse O: Slight adverse D: Slight adverse	None	C; O; D: Slight adverse (not significant in EIA terms).	None

Table 24.19: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for Commercial Fisheries and Aquaculture (Additional Table Provided in Response to RFI 5)

Other Plans and Projects and IDs	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect
Cumulative Impact 1: Loss of grounds or restricted access to fishing grounds within the Array Area					
ABWP2 OMF [CA_06] Codling Wind Park [OWF_03] Dublin Array [OWF_04] North Irish Sea Array [OWF_05] Oriel [OWF_08] Awel y Môr [OWF_13] Morgan [OWF_18] Codling Wind Park ECC [SC_03] Dublin Array ECC [SC_04] NISA ECC [SC_24] Oriel ECC [SC_25]	Tier 1	Assessment presented in Section 14.13.2 of Volume II, Chapter 14: Commercial Fisheries and Aquaculture (Revised March 2026)	<u>Tier 1</u> C, O & D: Not significant to Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1</u> C, O & D: Not significant to Slight adverse (not significant in EIA terms)
Mona [OWF_11] Celtic Interconnector [SC_31]	Tier 2		<u>Tier 1 + Tier 2</u> C, O & D: Not significant to Slight adverse (not significant in EIA terms)		<u>Tier 1 + Tier 2</u> C, O & D: Not significant to Slight adverse (not significant in EIA terms)
Decommissioning of ABWP1 [OWF_02] North Channel Wind 2 [OWF_31] North Channel Wind 1 [OWF_34] Isle of Man (Moor Vannin) [OWF_22]	Tier 3		<u>Tier 1 + Tier 2 + Tier 3</u>		<u>Tier 1 + Tier 2 + Tier 3</u> C, O & D: Not significant to Slight

<p>Morecambe [OWF_20] Mares Connect [SC_05] Erebus/Valorous Potential Cable Route [SC_26] LirC [SC_60] Réalt na Mara Offshore Wind Farm - Site Investigations [SUR_15] North Irish Sea Array (NISA) - Site Investigations [SUR_27] East Celtic Offshore Wind Park - Site Investigations [SUR_34] Oriel Windfarm Limited – Site Investigations [SUR_39] Aughinish Alumina Ltd (AAL) jetty – Site Investigations [SUR_47] Wicklow Sea Wind Ltd - Site Investigations [SUR_54]</p>	<p>C, O & D: Not significant to Slight adverse (not significant in EIA terms)</p>	<p>adverse (not significant in EIA terms)</p>
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Cumulative Impact 2: Loss of grounds or restricted access to fishing grounds within the Cable Corridor and Working Area

<p>See Tier 1 projects for Cumulative Impact 1</p>	<p>Tier 1</p>	<p>Assessment presented in Section 14.13.3 of Volume II, Chapter 14: Commercial Fisheries and Aquaculture (Revised March 2026)</p>	<p><u>Tier 1</u> C, O & D: Not significant to Slight adverse (not significant in EIA terms)</p>	<p>No additional mitigation required</p>	<p><u>Tier 1</u> C, O & D: Not significant to Slight adverse (not significant in EIA terms)</p>
<p>See Tier 2 projects for Cumulative Impact 1</p>	<p>Tier 2</p>		<p><u>Tier 1 + Tier 2</u> C, O & D: Not significant to Slight adverse (not significant in EIA terms)</p>		<p><u>Tier 1 + Tier 2</u> C, O & D: Not significant to Slight adverse (not significant in EIA terms)</p>

See Tier 3 projects for Cumulative Impact 1	Tier 3		<u>Tier 1 + Tier 2 + Tier 3</u> C, O & D: Not significant to Slight adverse (not significant in EIA terms)	<u>Tier 1 + Tier 2 + Tier 3</u> C, O & D: Not significant to Slight adverse (not significant in EIA terms)
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Cumulative Impact 3: Displacement of fishing activity into other areas

See Tier 1 projects for Cumulative Impact 1	Tier 1	Assessment presented in Section 14.13.4 of Volume II, Chapter 14: Commercial Fisheries and Aquaculture (Revised March 2026)	<u>Tier 1</u> C: Not significant to Moderate adverse (significant in EIA terms) O & D: Not significant to Slight adverse (not significant in EIA terms)	Liaison with Phase 1 developers and participation in Seafood/ORE Working Group	<u>Tier 1</u> C: Not significant to Slight adverse (not significant in EIA terms) O & D: Not significant to Slight adverse (not significant in EIA terms)
See Tier 2 projects for Cumulative Impact 1	Tier 2		<u>Tier 1 + Tier 2</u> C, O & D: Not significant to Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 2</u> C, O & D: Not significant to Slight adverse (not significant in EIA terms)
See Tier 3 projects for Cumulative Impact 1	Tier 3		<u>Tier 1 + Tier 2 + Tier 3</u> C, O & D: Not significant to Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 2 + Tier 3</u> C, O & D: Not significant to Slight adverse (not significant in EIA terms)

Cumulative Impact 4: Displacement or disruption of commercially important fish and shellfish resources

See Tier 1 projects for Cumulative Impact 1	Tier 1	Assessment presented in Section 14.13.5 of	<u>Tier 1</u>		<u>Tier 1</u>
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		Volume II, Chapter 14: Commercial Fisheries and Aquaculture (Revised March 2026)	C, O & D: Slight adverse (not significant in EIA terms)	No additional mitigation required	C, O & D: Slight adverse (not significant in EIA terms)
See Tier 2 projects for Cumulative Impact 1	Tier 2		<u>Tier 1 + Tier 2</u> C, O & D: Slight adverse (not significant in EIA terms)		<u>Tier 1 + Tier 2</u> C, O & D: Slight adverse (not significant in EIA terms)
See Tier 3 projects for Cumulative Impact 1	Tier 3		<u>Tier 1 + Tier 2 + Tier 3</u> C, O & D: Slight adverse (not significant in EIA terms)		<u>Tier 1 + Tier 2 + Tier 3</u> C, O & D: Slight adverse (not significant in EIA terms)

24.2.10 Shipping and Navigation

24.2.10.1 [Volume II, Chapter 15: Shipping and Navigation \(Revised March 2026\)](#) provides a full assessment of the potential cumulative impacts of the Proposed Development on shipping and navigation. ~~Table 24.1020~~ ~~Table 24.1020~~ presents a summary of the potential cumulative effects. [The supplementary cumulative assessment table prepared in accordance with PINS \(2024\) Appendix 2 is also provided for this topic in Table 24.21.](#)

24.2.10.2 The cumulative impacts assessed include: displacement of vessel traffic; port access restrictions; increased collision risk; increased allision risk; and diminished emergency response capability.

24.2.10.3 Overall, it is concluded that there will be no significant cumulative effects arising from the Proposed Development alongside other projects, plans and activities.

Table 24.4020: Summary of potential cumulative environmental impacts, mitigation and monitoring for Shipping and Navigation

Description of impact	Phase			Factored-in measures	Frequency of Occurrence	Severity of Consequence	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Displacement of Vessel Traffic	✓	✓	✓	<ul style="list-style-type: none"> Charting of all structures Implementation of a buoyed construction/ decommissioning area Implementation of VMP Implementation of MPCP Circulation of information 	C: Reasonable Probable O: Remote D: Reasonable Probable	C: Minor O: Minor D: Minor	C: Tolerable and As Low As Reasonably Practical (ALARP) (not significant in EIA terms). O: Broadly Acceptable (not significant in EIA terms). D: Tolerable and ALARP (not significant in EIA terms).	None	C; D: Tolerable and ALARP O: Broadly acceptable (not significant in EIA terms).	Traffic Monitoring
Port Access Restrictions	✓	✓	✓	<ul style="list-style-type: none"> Circulation of information Marine coordination Implementation of VMP 	C: Remote O: Extremely unlikely D: Remote	C: Minor O: Minor D: Minor	C; O; D: Broadly acceptable (not significant in EIA terms).	None	C; O; D: Broadly acceptable (not significant in EIA terms).	Traffic Monitoring
Increased Collision Risk	✓	✓	✓	<ul style="list-style-type: none"> Circulation of information. 	C: Extremely unlikely	C: Serious O: Serious D: Serious	C; O; D: Tolerable and ALARP	None	C; O; D: Tolerable (not	Traffic Monitoring

Description of impact	Phase			Factored-in measures	Frequency of Occurrence	Severity of Consequence	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
				<ul style="list-style-type: none"> Marine coordination. Convention on the International Regulations for Preventing Collisions at Sea, 1972 (COLREGs) / Safety of life at sea (SOLAS) compliance. Implementation of VMP. Implementation of MPCP. Implementation of an Emergency Response Cooperation Plan (ERCoP). 	O: Extremely unlikely D: Extremely unlikely		(not significant in EIA terms).		significant in EIA terms).	
Increased Allision Risk	✓	✓	✓	<ul style="list-style-type: none"> Advisory safety zones. Circulation of information. Charting of all structures. Lighting and marking. Implementation of VMP. 	C: Extremely unlikely O: Extremely unlikely D: Extremely unlikely	C: Serious O: Serious D: Serious	C: Tolerable and ALARP (not significant in EIA terms). O: Tolerable and ALARP (not significant in EIA terms). D: Tolerable and ALARP	None	C; O; D: Tolerable and ALARP (not significant in EIA terms).	Traffic Monitoring

Description of impact	Phase			Factored-in measures	Frequency of Occurrence	Severity of Consequence	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
				<ul style="list-style-type: none"> Implementation of MPCP. Implementation of ERCoP. 			(not significant in EIA terms).			
Diminished Emergency Response Capability	✓	✓	✓	<ul style="list-style-type: none"> Provision of self-help capability Implementation of ERCoP Implementation of MPCP 	C: Extremely unlikely O: Extremely unlikely D: Extremely unlikely	C: Serious O: Serious D: Serious	C; O; D: Tolerable and ALARP (not significant in EIA terms).	None Application of the SAR mitigations detailed in Volume III, Appendix 15.2: Shipping and Navigation Safety Justification (RFI March 2026)	C; O; D: Tolerable and ALARP (not significant in EIA terms).	Traffic Monitoring

Table 24.21: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for Shipping and Navigation (Additional Table Provided in Response to RFI 5)

Other Plans and Projects and IDs	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect
Cumulative Impact 1: Displacement of vessel traffic (displacement of established commercial vessel routes resulting in increased journey times and distances)					
Codling Wind Park [OWF_03] Dublin Array [OWF_04]	Tier 1	Assessment presented in Section 15.12.2 of Volume II, Chapter 15: Shipping and Navigation (Revised March 2026)	<u>Tier 1 + Tier 3</u> C & D: Tolerable and ALARP (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> C & D: Tolerable and ALARP (not significant in EIA terms)
Decommissioning of ABWP1 [OWF_02]	Tier 3		O: Broadly acceptable (not significant in EIA terms)		O: Broadly acceptable (not significant in EIA terms)
Cumulative Impact 2: Port access restrictions (restricted access in and out of ports in proximity to the Proposed Development)					
ABWP2 OMF [CA_06] Codling Wind Park [OWF_03] Dublin Array [OWF_04]	Tier 1	Assessment presented in Section 15.12.3 of Volume II, Chapter 15: Shipping and Navigation (Revised March 2026)	<u>Tier 1 + Tier 3</u> C, O & D: Broadly acceptable (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> C, O & D: Broadly acceptable (not significant in EIA terms)
Decommissioning of ABWP1 [OWF_02]	Tier 3				

Cumulative Impact 3: Increased collision risk (displacement of established commercial vessel routes resulting in an increased number of vessel to vessel encounters and consequently an increased risk of a vessel to vessel collision)

Codling Wind Park [OWF_03] Dublin Array [OWF_04]	Tier 1	Assessment presented in Section 15.12.4 of Volume II, Chapter 15: Shipping and Navigation (Revised March 2026)	<u>Tier 1 + Tier 3</u> C, O & D: Tolerable and ALARP (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> C, O & D: Tolerable and ALARP (not significant in EIA terms)
Decommissioning of ABWP1 [OWF_02]	Tier 3				

Cumulative Impact 4: Increased allision risk (increased risk of a vessel to structure allision, either involving a powered or drifting vessel)

Codling Wind Park [OWF_03] Dublin Array [OWF_04]	Tier 1	Assessment presented in Section 15.12.5 of Volume II, Chapter 15: Shipping and Navigation (Revised March 2026)	<u>Tier 1 + Tier 3</u> C, O & D: Tolerable and ALARP (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> C, O & D: Tolerable and ALARP (not significant in EIA terms)
Decommissioning of ABWP1 [OWF_02]	Tier 3				

Cumulative Impact 5: Diminished emergency response capability

ABWP2 OMF [CA_06] Codling Wind Park [OWF_03] Dublin Array [OWF_04]	Tier 1	Assessment presented in Section 15.12.6 of Volume II, Chapter 15: Shipping and Navigation (Revised March 2026)	<u>Tier 1 + Tier 3</u> C, O & D: Tolerable and ALARP (not significant in EIA terms)	Application of the SAR mitigations detailed in Volume III, Appendix 15.2: Shipping and Navigation Safety Justification (RFI March 2026)	<u>Tier 1 + Tier 3</u> C, O & D: Tolerable and ALARP (not significant in EIA terms)
Decommissioning of ABWP1 [OWF_02]	Tier 3				

24.2.11 Civil and Military Aviation ~~and radar~~

24.2.11.1 Volume II, Chapter 16: Civil and Military Aviation (Revised March 2026) provides a full assessment of the potential cumulative impacts of the Proposed Development on civil and military aviation and radar. Table 24.1122 Table 24.1122 presents a summary of the potential cumulative effects. The supplementary cumulative assessment table prepared in accordance with PINS (2024) Appendix 2 is provided for this topic in Table 24.23.

24.2.11.2 The cumulative impacts assessed include: creation of physical obstacles affecting air traffic.

24.2.11.3 Overall, it is concluded that there will be no significant cumulative effects from the Proposed Development alongside other projects, plans and activities.

Table 24.4122: Summary of potential cumulative environmental impacts, mitigation and monitoring for Civil and Military Aviation

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Creation of physical obstacles affecting air traffic	✓	✓	✓	Installation of appropriate lighting and marking in accordance with Irish Aviation Authority (IAA) guidance and specific DoD requirements to ensure compatibility with night vision equipment. IAA, DoD and Irish Coastguard (IRCG) consulted to ensure final layout is compatible with Search and Rescue (SAR) helicopter operations and DoD aviation operations, and that night vision equipment requirements are met.	C: Negligible O: Negligible D: Negligible	C: High O: High D: not significant HighHigh	C; O; D: Not significant in EIA terms.	None	C; O; D: Not significant in EIA terms.	None

Table 24.23: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for Civil and Military Aviation (Additional Table Provided in Response to RFI 5)

Other Plans and Projects and IDs	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect
Cumulative Impact 1: Creation of physical obstacles affecting air traffic					
Codling Wind Park [OWF_03] Dublin Array [OWF_04]	Tier 1	Assessment presented in Section 16.11.2 of Volume II, Chapter 16: Civil and Military Aviation (Revised March 2026)	<u>Tier 1</u> C: Not Significant O: Not Significant D: Not Significant	No additional mitigation required	<u>Tier 1</u> C: Not Significant O: Not Significant D: Not Significant
Decommissioning of ABWP1 [OWF_02]	Tier 3		<u>Tier 1 + Tier 3</u> C: Not Significant O: Not Significant	No additional mitigation required	<u>Tier 1 + Tier 3</u> C: Not Significant O: Not Significant

24.2.12 Seascape, Landscape and Visual Impact Assessment

24.2.12.1 Volume II, Chapter 17: Seascape, Landscape and Visual Impact Assessment (SLVIA) (Revised March 2026) provides a full assessment of the potential cumulative impacts of the Proposed Development on seascape, landscape and visual resources. Table 24.1224 Table 24.1224 presents a summary of the potential cumulative effects. The supplementary cumulative assessment table prepared in accordance with PINS (2024) Appendix 2 is provided for this topic in Table 24.25.

24.2.12.2 The cumulative impacts assessed include: visual effects, seascape effects, landscape character effects and landscape designation effects.

24.2.12.3 A preliminary assessment has been undertaken to review the potential for cumulative effects from the representative viewpoints and due to the lack of visibility of the other Phase 1 projects, several viewpoints have been scoped out of further assessment due to there being no likelihood of significant cumulative effects. Viewpoints that are assessed as having no significant cumulative effects due to the lack of visibility of the other Phase 1 projects (and therefore no potential for cumulative effect) are:

- Viewpoint 3 Ballynacarrig 3rd Class Road;
- Viewpoint 4 Ballynacarrig public house;
- Viewpoint 6 Tongelee 3rd Class Road;
- Viewpoint 9 Johnstown N11/M11;
- Viewpoint 12 Moneyribbin 3rd Class Road;
- Viewpoint 20 Curracloe Beach;
- Viewpoint 21 Barnacleagh Minor Road; and
- Viewpoint 22 Johnstown Coast Road.

24.2.12.4 Overall, it is concluded that there will be significant cumulative effects from the Proposed Development alongside other projects/plans.

24.2.12.5 Significant adverse cumulative effects have been identified in relation to:

- Visual receptors at 6 of the 29 viewpoints.
- Visual receptors travelling along parts of the R750, Dublin – Cherbourg ferry route and railway line between Greystones – Wicklow. Receptors along other parts of these routes will not experience significant effects.
- Two seascape character receptors, comprising the RSCA13: South East Irish Sea and RSCA14: Irish Sea, Sandbanks and Broad Bays, where the cumulative effect resulting from the addition of the Proposed Development with the influence of both Codling Wind Park and Dublin Array, will likely result in the seascape being partially defined by the influence of offshore wind turbine generators (WTGs) as a key characteristic of the seascape character.
- Three landscape character receptors, comprising the Southern Coastal Area (Wicklow) Landscape Character Area (LCA), Northern Coastal Area (Wicklow) LCA and Coastal (Wexford) LCA.

24.2.12.6 With regards to cumulative effects with other proposed Phase 1 developments Codling Wind Park and Dublin Array, it is considered that these developments, which lie north of the Proposed Development, would be visible sequentially in combination with the Proposed Development if these developments are approved. The proposed turbines associated with Codling Bank and Dublin Array would be seen as a distinct and separate development when viewed from northern portions of the SLVIA Study Area with visual impacts localised and large during the operational phase, giving rise to a significant seascape, landscape and visual cumulative effect should these developments be approved.

Table 24.1224: Summary of potential cumulative environmental impacts, mitigation and monitoring for SLVIA

Description of impact	Phase			Factored-in measures	Magnitude of change	Sensitivity of Change	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Cumulative Visual Effects (Phase 1 Projects CIA)										
Viewpoint 1: Wicklow Head	✓	✓	✓	Adherence to a Lighting and Marking Plan (LMP) (Volume III, Appendix 25.6: LMP (Revised March 2026))	Medium-low to high	High	Major (significant in EIA terms), moderate (significant in EIA terms)	None	Major (significant in EIA terms), moderate (significant)	N/A
Viewpoint 2: Blainroe Golf Club	✓	✓	✓	Adherence to a Rehabilitation Schedule (Volume III, Appendix 4.1).	High	Medium-high	Major (significant in EIA terms)	None	Major (significant in EIA terms)	N/A
Viewpoint 5: Brittas Bay Beach	✓	✓	✓	Promulgation of information to the IAA.	High	High	Major (significant in EIA terms)	None	Major (significant in EIA terms)	N/A
Viewpoint 7: Ballinvally 3 ^d Class Road	✓	✓	✓	Layout design. Charting of all structures associated with the Proposed	Medium-low	High	Moderate (not significant in EIA terms)	None	Moderate (not significant in EIA terms)	N/A
Viewpoint 8: Ballinaskea	✓	✓	✓	Development on relevant nautical and electronic charts	Medium to medium-high	Medium-high	Moderate Major-moderate	None	Moderate Major-moderate	N/A

Description of impact	Phase			Factored-in measures	Magnitude of change	Sensitivity of Change	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
3 rd Class Road				(Volume III, Appendix 25.7: Vessel Management Plan).			(significant in EIA terms)		(significant in EIA terms)	
Viewpoint 10: Ferry Bank, Arklow	✓	✓	✓	Aviation lighting (Volume III, Appendix 25.6: Lighting and Marking Plan)	Medium-low	High	Moderate (not significant in EIA terms)	None	Moderate (not significant in EIA terms)	N/A
Viewpoint 11: Arklow Town	✓	✓	✓	(Revised March 2026)).	Low	Medium-high	Moderate-minor (not significant in EIA terms)	None	Moderate-minor (not significant in EIA terms)	N/A
Viewpoint 13: Clogga Amenity Area	✓	✓	✓		Medium-low Medium	High	Moderate (not Major-moderate) (significant in EIA terms)	None	Moderate (not Major-moderate) (significant in EIA terms)	N/A
Viewpoint 14: Kilmichael Point	✓	✓	✓		Medium	High	Major-moderate (significant in EIA terms)	None	Major-moderate (significant in EIA terms)	N/A
Viewpoint 14: Kilmichael Point Viewpoint 15: Clones Coast Road	✓	✓	✓		Medium-low	High	Moderate (not significant in EIA terms)	None	Moderate (not significant in EIA terms)	N/A

Description of impact	Phase			Factored-in measures	Magnitude of change	Sensitivity of Change	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Viewpoint 15: Glenties Coast16: Tara Hill Minor Road	✓	✓	✓		Low	High	Moderate-minor (not significant in EIA terms)	None	Moderate-minor (not significant in EIA terms)	N/A
Viewpoint 16: Tara Hill Minor Road 17: Ballymoney Beach	✓	✓	✓		Low	High	Moderate-minor (not significant in EIA terms)	None	Moderate-minor (not significant in EIA terms)	N/A
Viewpoint 17: Ballymoney Beach	✓	✓	✓		Negligible	High	Minor (not significant in EIA terms)	None	Minor (not significant in EIA terms)	N/A
Viewpoint 18: Courtown Harbour Beach	✓	✓	✓		Negligible Low	Medium-high	Minor Moderate-minor (not significant in EIA terms)	None	Minor Moderate-minor (not significant in EIA terms)	N/A
Viewpoint 19: Cahore Point	✓	✓	✓		Negligible	High	Minor (not significant in EIA terms)	None	Minor (not significant in EIA terms)	N/A

Description of impact	Phase			Factored-in measures	Magnitude of change	Sensitivity of Change	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Viewpoint 23: Kileagh Minor Road	✓	✓	✓		Low to medium-low	Medium-high	Moderate-minor Moderate (not significant in EIA terms)	None	Moderate-minor Moderate (not significant in EIA terms)	N/A
Viewpoint 24: Mizen Head	✓	✓	✓		High	High	Major (significant in EIA terms)	None	Major (significant in EIA terms)	N/A
Viewpoint 25: Newcastle Beach	✓	✓	✓		Medium	Medium-high	Moderate (significant in EIA terms)	None	Moderate (significant in EIA terms)	N/A
Viewpoint 26: Scarr Mountain	✓	✓	✓		Medium-low	High	Moderate (not significant in EIA terms)	None	Moderate (not significant in EIA terms)	N/A
Viewpoint 27: Tara Hill Track	✓	✓	✓		Low	High	Moderate-minor (not significant in EIA terms)	None	Moderate-minor (not significant in EIA terms)	N/A
Viewpoint 28: Greystones Cliff Walk	✓	✓	✓		Medium-low	High	Moderate (not significant in EIA terms)	None	Moderate (not significant in EIA terms)	N/A

Description of impact	Phase			Factored-in measures	Magnitude of change	Sensitivity of Change	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Viewpoint 29: Sorrento Park	✓	✓	✓		Low	High	Moderate-minor (not significant in EIA terms)	None	Moderate-minor (not significant in EIA terms)	N/A
R750	✓	✓	✓		High	Medium-low to medium	Major-moderate (significant in EIA terms)	None	Major-moderate (significant in EIA terms)	N/A
Dublin – Cherbourg ferry	✓	✓	✓		High	Medium-high	Major (significant in EIA terms)	None	Major (significant in EIA terms)	N/A
Railway between Greystones and Wicklow	✓	✓	✓		Medium	Medium-high	Moderate (significant in EIA terms), moderate (not significant in EIA terms)	None	Moderate (significant in EIA terms), moderate (not significant in EIA terms)	N/A
Cumulative seascape effects (Phase 1 Projects CIA)										
RSCA13: South East Irish Sea	✓	✓	✓	Adherence to a Lighting and Marking Plan (LMP) (Volume	High	High	Major (significant in EIA terms)	None	Major (significant in EIA terms)	N/A

Description of impact	Phase			Factored-in measures	Magnitude of change	Sensitivity of Change	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
RSCA14: Irish Sea, Sandbanks and Broad Bays	✓	✓	✓	<p>III, Appendix 25.6: LMP (Revised March 2026))</p> <p>Adherence to a Rehabilitation Schedule (Volume III, Appendix 4.1).</p> <p>Promulgation of information to the IAA.</p> <p>Layout design.</p> <p>Charting of all structures associated with the Proposed Development on relevant nautical and electronic charts (Volume III, Appendix 25.7: Vessel Management Plan).</p> <p>Aviation lighting (Volume III, Appendix 25.6: Lighting and Marking Plan)</p>	Medium-high to high	Medium-high	Major-moderate (significant in EIA terms)	None	Major-moderate (significant in EIA terms)	N/A

Description of impact	Phase			Factored-in measures	Magnitude of change	Sensitivity of Change	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							

(Revised March 2026)).

Cumulative landscape character effects ~~(Phase 1 Projects CIA)~~

Southern Coastal Area (Wicklow) LCA	✓	✓	✓	Adherence to a Lighting and Marking Plan (LMP) (Volume III, Appendix 25.6: LMP (Revised March 2026))	Medium	High	Major-moderate (significant in EIA terms)	None	Major-moderate (significant in EIA terms)	N/A
Northern Coastal Area (Wicklow) LCA	✓	✓	✓	Adherence to a Rehabilitation Schedule (Volume III, Appendix 4.1).	Medium-low	Medium-high	Moderate (significant in EIA terms)	None	Moderate (significant in EIA terms)	N/A
Coastal (Wexford) LCA	✓	✓	✓	Promulgation of information to the IAA. Layout design. Charting of all structures associated with the Proposed Development on relevant nautical and	Medium-low	Medium-high	Moderate (significant in EIA terms)	None	Moderate (significant in EIA terms)	N/A

Description of impact	Phase			Factored-in measures	Magnitude of change	Sensitivity of Change	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							

electronic charts (Volume III, Appendix 25.7: Vessel Management Plan).
 Aviation lighting (Volume III, Appendix 25.6: Lighting and Marking Plan) ~~(Revised March 2026)~~.
[\(Revised March 2026\)](#)).

Cumulative landscape designation effects ~~(Phase 1 Projects CIA)~~

Bray Head Special Amenity Area Order (SAAO)	✓	✓	✓	Adherence to a Lighting and Marking Plan (LMP) (Volume III, Appendix 25.6: LMP (Revised March 2026)).	Medium-low	High	Moderate (not significant in EIA terms)	None	Moderate (not significant in EIA terms)	N/A
				Adherence to a Rehabilitation Schedule (Volume III, Appendix 4.1).						

Description of impact	Phase	Factored-in measures	Magnitude of change	Sensitivity of Change	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C O D	<p>Promulgation of information to the IAA.</p> <p>Layout design.</p> <p>Charting of all structures associated with the Proposed Development on relevant nautical and electronic charts (Volume III, Appendix 25.7: Vessel Management Plan).</p> <p>Aviation lighting (Volume III, Appendix 25.6: Lighting and Marking Plan) Plan (Revised March 2026)).</p>						

Table 24.25: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for SLVIA (Additional Table Provided in Response to RFI 5)

Other Plans and Projects and IDs	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect
Cumulative Impact 1: Visual effects resulting from ABWP2 in the context of cumulative developments					
ABWP2 OGI [CA_01] ABWP2 OMF [CA_06]	Tier 1	Assessment presented in Section 17.12	C, O & D: Not significant	None	No change to significance
Codling Wind Park [OWF_03] Dublin Array [OWF_04] North Irish Sea Array [OWF_05] Oriel [OWF_08]	Tier 1	of Volume II, Chapter 17: Seascape, Landscape and Visual Impact Assessment (Revised March 2026)	C, O & D: Not Significant (VPs 3, 4, 6, 9, 12, 20, 21, 22) Minor (not significant) (VPs 19) Moderate/Minor (not significant) (VPs 11, 16, 17, 18, 27, 29) Moderate (not significant) (VPs 7, 10, 15, 23, 26, 28, Railway between Greystones and Wicklow) Moderate (significant) (VPs 25, Railway between Greystones and Wicklow) Moderate/Major (VPs 1, 8, 13, 14, R750) Major (VPs 2, 5, 27, Dublin – Cherbourg Ferry)	None	No change to significance
Decommissioning of ABWP1 [OWF_02]	Tier 3		C: Similar to, and no greater than, the operational effects for the project alone, as set out in Section 17.10 and 17.11 of the Chapter	None	No change to significance

Cumulative Impact 2: Seascape character effects resulting from ABWP2 in the context of cumulative developments

ABWP2 OGI [CA_01] ABWP2 OMF [CA_06]	Tier 1	Assessment presented in Section 17.12	C, O & D: Not significant	None	No change to significance
Codling Wind Park [OWF_03] Dublin Array [OWF_04] North Irish Sea Array [OWF_05] Oriel [OWF_08]	Tier 1	of Volume II, Chapter 17: Seascape, Landscape and Visual Impact	C, O & D: Moderate/Major (RSCA 14) Major (RSCA 13)	None	No change to significance
Decommissioning of ABWP1 [OWF_02]	Tier 3	Assessment (Revised March 2026)	C: Similar to, and no greater than, the operational effects for the project alone, as set out in Section 17.10 and 17.11 of the Chapter	None	No change to significance

Cumulative Impact 3: Landscape character effects resulting from ABWP2 in the context of cumulative developments

ABWP2 OGI [CA_01] ABWP2 OMF [CA_06]	Tier 1	Assessment presented in Section 17.12	C, O & D: Not significant	None	No change to significance
Codling Wind Park [OWF_03] Dublin Array [OWF_04] North Irish Sea Array [OWF_05] Oriel [OWF_08]	Tier 1	of Volume II, Chapter 17: Seascape, Landscape and Visual Impact	C, O & D: Moderate (significant) (Northern Coastal Area (Wicklow LCA, Coastal (Wexford) LCA) Moderate/Major (Southern Coastal Area (Wicklow) LCA)	None	No change to significance
Decommissioning of ABWP1 [OWF_02]	Tier 3	Assessment (Revised March 2026)	C: Similar to, and no greater than, the operational effects for the project alone, as set out in Section 17.10 and 17.11 of the Chapter	None	No change to significance

Cumulative Impact 4: Landscape designation effects resulting from ABWP2 in the context of cumulative developments

ABWP2 OGI [CA_01] ABWP2 OMF [CA_06]	Tier 1	Assessment presented in Section 17.12	C, O & D: Not significant	None	No change to significance
Codling Wind Park [OWF_03] Dublin Array [OWF_04] North Irish Sea Array [OWF_05] Oriel [OWF_08]	Tier 1	of Volume II, Chapter 17: Seascape, Landscape and Visual Impact	C, O & D: Moderate (not significant) (Bray Head SAAO)	None	No change to significance
Decommissioning of ABWP1 [OWF_02]	Tier 3	Assessment (Revised March 2026)	C: Similar to, and no greater than, the operational effects for the project alone, as set out in Section 17.10 and 17.11 of the Chapter	None	No change to significance

24.2.13 Marine Archaeology and Cultural Heritage

24.2.13.1 [Volume II, Chapter 18: Marine Archaeology and Cultural Heritage \(Revised March 2026\)](#) provides a full assessment of the potential cumulative impacts of the Proposed Development on marine archaeology and cultural heritage. ~~Table 24.1326~~ ~~Table 24.1326~~ presents a summary of the potential cumulative effects. [The supplementary cumulative assessment table prepared in accordance with PINS \(2024\) Appendix 2 is provided for this topic in Table 24.27.](#)

24.2.13.2 The cumulative impacts assessed include: sediment disturbance and deposition leading to effects on known and unknown heritage assets; direct impact on historic shipwreck sites; direct impact on buried palaeo-landscapes; and indirect impact on the setting of terrestrial cultural heritage assets.

24.2.13.3 It is concluded that there will be no significant cumulative effects from the Proposed Development alongside other projects/plans on marine archaeology. It is concluded that there will be one significant cumulative effect arising from the Proposed Development alongside other projects, plans and activities, for indirect impact on the setting of terrestrial cultural heritage assets during the construction and the operational and maintenance phase.

Table 24.4326: Summary of potential cumulative environmental impacts, mitigation and monitoring for Marine Archaeology and Cultural Heritage

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Sediment disturbance and deposition leading to effects on known and unknown heritage assets	✓	✓	✗	Archaeological Exclusion Zones (AEZ) will be established around each known shipwreck site and potential site, within which no installation activities should take place. The AEZs are set out in Volume III, Appendix 18.1: Marine Archaeology and Cultural Heritage Technical Report (Revised March 2026), and in Volume III, Appendix 25.9: Archaeological Management Plan (AMP) (Revised March 2026). In the event that site preparation and installation works are unable to avoid activities within an	C: Negligible O: Negligible	C: High O: High	C: Not significant in EIA terms O: Not significant in EIA terms	None	C: Not significant C; O: Not significant in EIA terms	N/A

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
				<p>AEZ, the works can only proceed with the consent of the National Monuments Service (NMS).</p> <p>Confirmatory marine geophysical surveys, Remote Operated Vehicles (ROV) surveys and geotechnical surveys conducted for the Proposed Development prior to construction will be reviewed by a maritime archaeologist as part of the project design team and the findings will be communicated to the NMS and will inform the need for micro-siting.</p> <p>An Archaeology Management Plan (AMP) has been</p>						

Description of impact	Phase C O D	Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
		<p>prepared to inform the construction, operational and maintenance and decommissioning phases of works. The AMP is provided in Volume III, Appendix 25.9: Archaeological Management Plan (Revised March 2026). The AMP sets out the principal protocols that the Developer will put in place to ensure the protection of archaeological heritage through the course of the project lifetime. The AMP facilitates the recording and reporting of any archaeological material discovered during project lifetime should this occur. The</p>						

Description of impact	Phase C O D	Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
		<p>AMP addresses protocols for archaeological monitoring of works where the recovery of material to the surface is possible. The AMP addresses protocols for recording and reporting observations where the recovery of material to the surface is not possible and where the seabed has already been surveyed comprehensively and no archaeological features recorded.</p> <p>The AMP addresses protocols for archaeological inputs when a discovery of archaeological material is made.</p> <p>The principle of avoidance has informed the design</p>						

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
				<p>process, whereby impacts on known archaeological sites have been avoided wherever possible.</p> <p>Project maritime archaeologists, operating under licence from the Department of Housing, Local Government and Heritage (DHLGH), will be engaged on the project to monitor construction activities and observe any works where material of archaeological importance may be uncovered.</p> <p>Adherence to the Rehabilitation Schedule; (Volume III, Appendix 4.1).</p>						

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Direct impact on historic shipwreck sites.	✓	✓	✗	As per the measures impact 1 - Sediment disturbance and deposition leading to effects on known and unknown heritage assets.	C: Negligible O: Negligible	C: High O: High	C: Not significant in EIA terms O: Not significant in EIA terms	None	C: Not significant C; O: Not significant in EIA terms	N/A
Direct impact on buried palaeo-landscapes.	✓	✓	✗	As per the measures impact 1 - Sediment disturbance and deposition leading to effects on known and unknown heritage assets.	C: Negligible O: Negligible	C: High O: High	C: Not significant in EIA terms O: Not significant in EIA terms	None	C: Not significant C; O: Not significant in EIA terms	N/A
Indirect impact on the setting of terrestrial cultural heritage sites	✓	✓	✓	N/A	C: Medium O: Medium D: Low	C: High O: High D: High	C: Significant in EIA terms O: Significant in EIA terms D: Moderate (Not significant in EIA terms)	C: None O: None D: None	C: Significant in EIA terms O: Significant in EIA terms D: Moderate (Not significant in EIA terms)	None

Table 24.27: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for Marine Archaeology and Cultural Heritage (Additional Table Provided in Response to RFI 5)

Other Plans and Projects and IDs	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect
Cumulative Impact 1: Sediment disturbance and deposition leading to effects on known and unknown heritage assets					
ABWP2 OGI [CA_01] Irish Mussel Seed Company Ltd [AQC_01] Codling Wind Park [OWF_03] Dublin Array [OWF_04]	Tier 1	Assessment presented in Section 18.12.2 of Volume II, Chapter 18: Marine Archaeology and Cultural Heritage (Revised March 2026)	<u>Tier 1</u> C: Not Significant O: Not Significant	No additional mitigation required	<u>Tier 1</u> C: Not Significant O: Not Significant
Decommissioning of ABWP1 [OWF_02]	Tier 3		<u>Tier 1 + Tier 3</u> C: Not Significant	No additional mitigation required	<u>Tier 1 + Tier 3</u> C: Not Significant
Cumulative Impact 2: Direct impact on historic shipwreck sites					
ABWP2 OGI [CA_01] Irish Mussel Seed Company Ltd [AQC_01] Codling Wind Park [OWF_03] Dublin Array [OWF_04]	Tier 1	Assessment presented in Section 18.12.3 of Volume II, Chapter 18: Marine Archaeology and Cultural Heritage (Revised March 2026)	<u>Tier 1</u> C: Not Significant O: Not Significant	No additional mitigation required	<u>Tier 1</u> C: Not Significant O: Not Significant
Decommissioning of ABWP1 [OWF_02]	Tier 3		<u>Tier 1 + Tier 3</u> C: Not Significant	No additional mitigation required	<u>Tier 1 + Tier 3</u> C: Not Significant

Cumulative Impact 3: Direct impact on buried palaeo-landscapes

ABWP2 OGI [CA_01] Irish Mussel Seed Company Ltd [AQC_01] Codling Wind Park [OWF_03] Dublin Array [OWF_04]	Tier 1	Assessment presented in Section 18.12.4 of Volume II, Chapter 18: Marine Archaeology and Cultural Heritage (Revised March 2026)	<u>Tier 1</u> C: Not Significant O: Not Significant	No additional mitigation required	<u>Tier 1</u> C: Not Significant O: Not Significant
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Cumulative Impact 4: Indirect impact on the setting of terrestrial cultural heritage assets

ABWP2 OGI [CA_01] Irish Mussel Seed Company Ltd [AQC_01] Codling Wind Park [OWF_03] Dublin Array [OWF_04]	Tier 1	Assessment presented in Section 18.12.5 of Volume II, Chapter 18: Marine Archaeology and Cultural Heritage (Revised March 2026)	<u>Tier 1</u> C: Significant O: Significant D: Moderate (Not significant in EIA terms)	None	<u>Tier 1</u> C: Significant O: Significant D: Moderate (Not significant in EIA terms)
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24.2.14 Infrastructure and Other Users

24.2.14.1 [Volume II, Chapter 19: Infrastructure and Other Users \(Revised March 2026\)](#) provides a full assessment of the potential cumulative impacts of the Proposed Development on infrastructure and other users. ~~Table 24.1428~~ ~~Table 24.1428~~ presents a summary of the potential cumulative effects. [The supplementary cumulative assessment table prepared in accordance with PINS \(2024\) Appendix 2 is provided for this topic in Table 24.29.](#)

24.2.14.2 The cumulative impacts assessed include: displacement of other users due to the physical presence of infrastructure; displacement of other users due to increased vessel movements; increased suspended sediment concentrations and associated deposition affecting recreational diving sites and recreational fishing activities; and restrictions to potential aggregate resource availability.

24.2.14.3 Overall, it is concluded that there will be no significant cumulative effects from the Proposed Development alongside other projects, plans and activities.

Table 24.1428: Summary of potential cumulative environmental impacts, mitigation and monitoring for Infrastructure and Other Users

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Displacement of other users due to the physical presence of infrastructure	✓	✓	✓	Notices to Mariners (NtM) advising of the location, nature and timing of activities; information and notices posted at the Landfall; database of known users (including local yacht clubs, local dive clubs and local recreational activity centres) to act as a mailing list for direct issue of Notices to Mariners	C: Low O: Low D: Low	C: Medium O: Medium D: Medium	C: Slight adverse (not significant in EIA terms). O: Slight adverse (not significant in EIA terms). D: Slight adverse (not significant in EIA terms).	None	C: Slight adverse (not significant in EIA terms). O: Slight adverse (not significant in EIA terms). D: Slight adverse (not significant in EIA terms).	None

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Displacement of other users due to increased vessel movements	✓	✓	✓	NtM advising of the location, nature and timing of activities; information and notices posted at the Landfall; database of known users (including local yacht clubs, local dive clubs and local recreational activity centres) to act as a mailing list for direct issue of Notices to Mariners; appointment of a Community Engagement Manager during the pre-construction	C: Low O: Low D: Low	C: Medium O: Medium D: Medium	C: Slight adverse (not significant in EIA terms); O: Slight adverse (not significant in EIA terms). D: Slight adverse (not significant in EIA terms).	None	C: Slight adverse (not significant in EIA terms); O: Slight adverse (not significant in EIA terms). D: Slight adverse (not significant in EIA terms).	None

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
				and construction phase						
Increased suspended sediment concentrations and associated deposition affecting recreational diving sites and recreational fishing	✓	✓	✓	NtM advising of the location, nature and timing of activities; database of known users (including local dive clubs) to act as a mailing list for direct issue of Notices to Mariners; appointment of a Community Engagement Manager during the pre-construction and construction phase	C: Negligible - Low O: Negligible D: Low	C: Medium O: Medium D: Medium	C: Not Significant to Slight adverse (not significant in EIA terms). O: Imperceptible adverse (Not Significant in EIA terms). D: Slight adverse (not significant in EIA terms).	None	C: Not Significant to Slight adverse (not significant in EIA terms). O: Imperceptible adverse (Not Significant in EIA terms). D: Slight adverse (not significant in EIA terms).	None

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Restrictions to potential aggregate resource availability	✓	✓	✓	NtM advising of the location, nature and timing of activities; information and notices posted at the Landfall; database of known users.	C: Negligible O: Negligible D: Negligible Low	C: Low O: Low D: Low	C: Not Significant O: Not Significant C; O; D: ImperceptibleSlight adverse (not significant in EIA terms)	None	C: Not Significant O: Not Significant C; O; D: ImperceptibleSlight adverse (not significant in EIA terms);	None

Table 24.29: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for Infrastructure and Other Users (Additional Table Provided in Response to RFI 5)

Other Plans and Projects and IDs	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect
Cumulative Impact 1: Displacement of other users due to the physical presence of infrastructure					
Codling Wind Park [OWF_03] Dublin Array [OWF_04]	Tier 1	Assessment presented in Section 19.12.2 of Volume II, Chapter 19, Infrastructure and Other Users (Revised March 2026)	<u>Tier 1</u> C: Slight adverse (not significant in EIA terms) O: Slight adverse (not significant in EIA terms) D: Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1</u> C: Slight adverse (not significant in EIA terms) O: Slight adverse (not significant in EIA terms) D: Slight adverse (not significant in EIA terms)
Decommissioning of ABWP1 [OWF_02]	Tier 3		<u>Tier 1 + Tier 3</u> C: Slight adverse (not significant in EIA terms)	No additional mitigation required	<u>Tier 1 + Tier 3</u> C: Slight adverse (not significant in EIA terms)
Cumulative Impact 2: Displacement of other users due to increased vessel movements					
Codling Wind Park [OWF_03] Dublin Array [OWF_04]	Tier 1	Assessment presented in Section 19.12.3 of Volume	<u>Tier 1</u>	No additional mitigation required	<u>Tier 1</u>

		II, Chapter 19, Infrastructure and Other Users (Revised March 2026)	C: Slight adverse (not significant in EIA terms) O: Slight adverse (not significant in EIA terms) D: Slight adverse (not significant in EIA terms)		C: Slight adverse (not significant in EIA terms) O: Slight adverse (not significant in EIA terms) D: Slight adverse (not significant in EIA terms)
Decommissioning of ABWP1 [OWF_02]	Tier 3		Tier 1 + Tier 3 C: Slight adverse (not significant in EIA terms)	No additional mitigation required	Tier 1 + Tier 3 C: Slight adverse (not significant in EIA terms)
Cumulative Impact 3: Increased suspended sediment concentrations and associated deposition affecting recreational diving sites and recreational fishing					
Codling Wind Park [OWF_03] Dublin Array [OWF_04]	Tier 1	Assessment presented in Section 19.12.4 of Volume II, Chapter 19: Infrastructure and Other Users (Revised March 2026)	Tier 1 C: Not Significant O: Not Significant D: Not Significant	No additional mitigation required	Tier 1 C: Not Significant O: Not Significant D: Not Significant
Decommissioning of ABWP1 [OWF_02]	Tier 3		Tier 1 + Tier 3 C: Slight adverse (not significant in EIA terms)	No additional mitigation required	Tier 1 + Tier 3 C: Slight adverse (not significant in EIA terms)

Cumulative Impact 4: Restrictions to potential aggregate resource availability

Codling Wind Park [OWF_03] Dublin Array [OWF_04]	Tier 1	Assessment presented in Section 19.12.5 of Volume II, Chapter 19: Infrastructure and Other Users (Revised March 2026)	<u>Tier 1</u> C: Not Significant O: Not Significant D: Not Significant	No additional mitigation required	<u>Tier 1</u> C: Not Significant O: Not Significant D: Not Significant
Decommissioning of ABWP1 [OWF_02]	Tier 3		<u>Tier 1 + Tier 3</u> C: Not Significant	No additional mitigation required	<u>Tier 1 + Tier 3</u> C: Not Significant

24.2.15 Air Quality and Climate

24.2.15.1 [Volume II, Chapter 20: Air Quality and Climate \(Revised March 2026\)](#) provides a full assessment of the potential cumulative impacts of the Proposed Development on air quality and climate. ~~Table 24.1530~~ ~~Table 24.1530~~ presents a summary of the potential cumulative effects. [The supplementary cumulative assessment table prepared in accordance with PINS \(2024\) Appendix 2 is provided for this topic in Table 24.31.](#)

24.2.15.2 The cumulative impacts assessed include: changes in emissions to atmosphere.

24.2.15.3 Overall, it is concluded that there will be no significant cumulative effects from the Proposed Development alongside other projects, plans and activities during the construction and decommissioning phases, and major beneficial (significant in EIA terms) cumulative effects from the Proposed Development alongside other projects, plans and activities during the operational and maintenance phase.

Table 24.4530: Summary of potential cumulative environmental impacts, mitigation and monitoring for Air Quality and Climate

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Changes in emission to atmosphere	✓	✓	✓	An Environmental Management Plan (EMP) will be implemented (Volume III, Appendix 25.1: Environmental Management Plan (Revised March 2026))	C: Low O: High D: Low	C: Medium O: Medium D: Medium	C: Slight adverse (not significant in EIA terms). O: Major beneficial (significant in EIA terms). D: Slight adverse (not significant in EIA terms).	None	C: Slight adverse (not significant in EIA terms). O: Major beneficial (significant in EIA terms). D: Slight adverse (not significant in EIA terms).	None

Table 24.31: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for Air Quality and Climate (Additional Table Provided in Response to RFI 5)

Other Plans and Projects and IDs	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect
Cumulative Impact 1: Changes in emission to atmosphere					
ABWP2 OGI [CA_01] ABWP2 OMF [CA_06] ABWP2 Eirgrid Upgrade works [CA_09]	Tier 1	Assessment presented in Section 20.10.2 of Volume II, Chapter 20: Air Quality and Climate (Revised March 2026)	<u>Tier 1</u> C: Slight adverse (not significant in EIA terms). O: Major beneficial (significant in EIA terms). D: Slight adverse (not significant in EIA terms).	No additional mitigation required	<u>Tier 1</u> C: Slight adverse (not significant in EIA terms). O: Major beneficial (significant in EIA terms). D: Slight adverse (not significant in EIA terms).

24.2.16 Population and Human Health

24.2.16.1 [Volume II, Chapter 21: Population and Human Health \(Revised March 2026\)](#) provides a full assessment of the potential cumulative impacts of the Proposed Development on population and human health. [Table 24.1632](#) ~~Table 24.1632~~ presents a summary of the potential cumulative effects. [The supplementary cumulative assessment table prepared in accordance with PINS \(2024\) Appendix 2 is provided for this topic in Table 24.33.](#)

24.2.16.2 The cumulative impacts assessed include: Increase in Gross Value Added (GVA); increase in employment; tourism economy impact; tourism and recreation asset impacts; and residential amenities and community asset impacts

24.2.16.3 Overall, it is concluded that there will be no significant cumulative effects from the Proposed Development alongside other projects, plans and activities.

Table 24.4632: Summary of potential cumulative environmental impacts, mitigation and monitoring for Population and Human Health

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Increase in Gross Value Added (GVA)	✓	✓	✓	Appointment of a Community Engagement Manager during the pre-construction and construction phase.	C: High (Positive) O: High (Positive) D: High (Positive)	Local area: Medium Ireland: Low	C; O; D: Significant (Positive) in the local area; moderate (Positive) in Ireland.	None	C; O; D: Significant (Positive) in the local area; moderate (Positive) in Ireland.	None
Increase in Employment	✓	✓	✓	Appointment of a Community Engagement Manager during the pre-construction and construction phase.	C: High (Positive) O: High (Positive) D: High (Positive)	Local area: Medium Ireland: Low	C; O; D: Significant (Positive) in the local area; moderate (Positive) in Ireland.	None	C; O; D: Significant (Positive) in the local area; moderate (Positive) in Ireland.	None
Tourism Economy Impact	✓	✓	✓	Appointment of a Community Engagement Manager during the pre-construction and construction phase.	C; O; D: Negligible	Local area: Medium	C; O; D: Not significant.	None	C; O; D: Not significant.	None

Description of impact	Phase			Factored-in measures	Magnitude of impact	Sensitivity of Receptors	Significance of effect	Additional measures	Residual effect	Proposed monitoring
	C	O	D							
Tourism and Recreation Asset Impacts	✓	✓	✓	Appointment of a Community Engagement Manager during the pre-construction and construction phase.	C: Negligible O: Negligible D: Negligible	C: Negligible to Low O: Negligible to Low D: Negligible to Low	C: Not significant to Imperceptible adverse. O: Not significant to Imperceptible adverse. D: Not significant to Imperceptible adverse.	None	C; O; D: Not significant to Imperceptible adverse.	None
Residential Amenities and Community Asset Impacts	✓	✓	✓	Appointment of a Community Engagement Manager during the pre-construction and construction phase.	C: Negligible O: Negligible D: Negligible	C: Low O: Low D: Low	C: Not significant O: Not significant D: Not significant	None	C: Not significant O: Not significant D: Not significant	None

Table 24.33: PINS (2024) Appendix 2 – Cumulative Effects Assessment Matrix for Population and Human Health (Additional Table Provided in Response to RFI 5)

Other Plans and Projects	Tier	Assessment of cumulative effect	Significance of cumulative effect	Proposed measure(s) to mitigate cumulative effect	Residual cumulative effect
Cumulative Impact 1: Increase in Gross Value Added					
ABWP2 OGI [CA_01] ABWP2 OMF [CA_06] Arklow Bank Wind Park 1 [OWF_01] Arklow Phase 1 Power Cable [SC_01] Codling Wind Park [OWF_03] Codling Wind Park ECC [SC_03] HIBERNIA ATLANTIC SEG D [SC_02] Dublin Array [OWF_04] Dublin Array ECC [SC_04] UK-IRELAND 2 CROSSING [SC_06] ESAT 2 [SC_07] CeltixConnect - Sea Fibre Networks [SC_09] HIBERNIA ATLANTIC SEG C [SC_10] ZAYO Emerald Bridge One [SC_12] SIRIUS SOUTH [SC_14] Rockabill Telecoms Cable [SC_15] North Irish Sea Array [OWF_05] NISA ECC [SC_24]	Tier 1	Assessment presented in Section 21.13.2 of Volume II, Chapter 21: Population and Human Health (Revised March 2026)	<u>Tier 1 + Tier 2 + Tier 3</u> C: Local Area – Significant (Positive); Ireland - Moderate (Positive) O: Local Area – Significant (Positive); Ireland - Moderate (Positive) D: Local Area – Significant (Positive); Ireland - Moderate (Positive)	No additional mitigation required	<u>Tier 1 + Tier 2 + Tier 3</u> C: Local Area – Significant (Positive); Ireland - Moderate (Positive) O: Local Area – Significant (Positive); Ireland - Moderate (Positive) D: Local Area – Significant (Positive); Ireland - Moderate (Positive)

UK-IRELAND CROSSING 1 [SC_16]
East West Interconnector [SC_17]
SOLAS [SC_20]
Havhingsten Telecoms Cable [SC_22]
Greenlink Interconnector [SC_23]
Holyhead Deep 0.5MW Site [OOE_02]
Oriel [OWF_08]
Oriel ECC [SC_25]
Milford Haven Estuary (META Phase 2) -
Dale Roads [OOE_06]
Western HVDC Link [SC_27]
Milford Haven Estuary (META Phase 2) -
East Pickard Bay [OOE_07]
HIBERNIA ATLANTIC SEG A [SC_28]
Marine Energy Test Areas (META)
[OOE_08]
Milford Haven Estuary (META Phase 2) -
Warrior Way [OOE_09]
Erebus Floating Wind Demo [OWF_09]
TATA ATLANTIC NORTH [SC_29]
Pembrokeshire Demonstration Zone
[OOE_11]
Awel y Môr [OWF_13]
Hibernia Express [SC_33]
MANX-N.IRELAND [SC_34]
Rhyl Flats [OWF_15]
TGN W.EUROPE UK-PORTUGAL [SC_35]
Rhyl Flats [SC_36]

LANIS 1 [SC_37]
Gwynt y Mor [OWF_16]
Morgan [OWF_18]
Gwynt y Mor [SC_38]
North Hoyle [SC_39]
LANIS 2 [SC_40]
IOM/UK INTERCONNECTOR [SC_41]
BURBO BANK EXTENSION INTER-
ARRAY CABLE A01-A02 [SC_42]
WESTERN LINK ARDNEILL TO WIRRAL 2
POWER CABLE [SC_43]
North Hoyle [OWF_19]
BT-MT1 [SC_44]
White Cross [OWF_21]
SWANSEA/BREAN [SC_46]
Burbo Bank Extension [OWF_23]
APOLLO NORTH [SC_47]
Walney Extension 3 [OWF_25]
WALNEY 3 EXPORT CABLE [SC_48]
Walney Extension 4 [OWF_26]
Burbo Bank [OWF_27]
WALNEY 4 EXPORT CABLE [SC_49]
SCOTLAND-N.IRELAND 1 [SC_51]
Burbo Bank Export Cable 1 [SC_50]
TATA ATLANTIC SOUTH [SC_53]
SIRIUS NORTH [SC_54]
GRACE HOPPER TELECOM CABLE
[SC_55]

Walney 2 OFTO [SC_56]
LANIS 3 [SC_58]
Walney 2 [OWF_28]
West of Duddon Sands [OWF_29]
West of Duddon Sands OFTO [SC_59]
YELLOW [SC_61]
Walney 1 [OWF_30]
Walney 1 OFTO [SC_57]
Ormonde [OWF_32]
Ormonde OFTO [SC_62]
IRIS SEG 1 TELECOM CABLE [SC_63]
Barrow [OWF_33]
Barrow OFTO [SC_64]
Robin Rigg West [OWF_35]
Robin Rigg East [OWF_36]
Robin Rigg OFTO [SC_74]
TwinHub [OWF_37]
MOYLE INTERCONNECTOR SOUTH [SC-65]
MOYLE INTERCONNECTOR NORTH [SC-66]
AE Connect Cable [SC_75]
Wave Hub [OOE_25]
Wave Hub OFTO [SC_76]
Havfrue [SC_77]
Falmouth Bay Test Site (FaBTest)
[OOE_28]

SCOTLAND-N IRELAND 3 TELECOM
CABLE [SC_68]
FLAG ATLANTIC NORTH [SC_78]
Isle of Scilly [SC_81]
SCOTLAND-NI 2 [SC_69]
ATLANTIC CROSSING 1 SEG B1 and C
[SC_82]
FLAG ATLANTIC INTERLINK [SC_84]
TAT12-13 [SC_85]
HUGO [SC_88]
BT IOS1 [SC_89]
UK/CH.ISLANDS 7 [SC_93]
LIBERTY [SC_94]
APOLLO SOUTH [SC_97]
FLAG ATLANTIC SOUTH [SC_98]
GUERNSEY-JERSEY 1 OVERLAY 90KV
INTERCONNECTOR CABLE [SC_100]
INGRID GJ TELCOM CABLE [SC_102]
GUERNSEY-JERSEY 4 TELECOM CABLE
[SC_103]
NORMANDIE 1 90KV INTERCONNECTOR
CABLE [SC_104]
INGRID JF TELCOM CABLE [SC_105]
NORMANDIE 2 90KV INTERCONNECTOR
CABLE [SC_]
NORMANDIE 3 90KV INTERCONNECTOR
CABLE [SC_106]
ATLANTIC CROSSING 1 SEG A [SC_113]

Teesside [OWF_41]
Amitie [SC_70]
GLO 1 [SC_72]
Blyth [OWF_42]
Blyth Demo Phase 1 [OWF_43]
Blyth Demonstration Site [OWF_44]
Perpetuus Tidal Energy Centre (PTEC)
[OOE_34]
Methil Demo/Levenmouth [OWF_46]
Westermost Rough [OWF_47]
Humber Gateway [OWF_48]
Lynn [OWF_49]
Inner Dowsing [OWF_50]
Lincs [OWF_51]
Nearth Na Gaoithe [OWF_52]
Isle of Muck [OOE_36]
Triton Knoll [OWF_53]
Rampion [OWF_54]
Race Bank [OWF_56]
Rampion 2 [OWF_57]
Inch Cape [OWF_58]
Sheringham Shoal Extension [OWF_61]
Seagreen Phase 1 [OWF_64]
Dudgeon Extension [OWF_65]
Dudgeon [OWF_70]
Kentish Flats Extension [OWF_71]
Hornsea Project Two [OWF_73]
Kentish Flats [OWF_72]

Gunfleet Sands I [OWF_74]
Gunfleet Sands Demo [OWF_75]
Gunfleet Sands II [OWF_76]
Hornsea Project One [OWF_78]
London Array [OWF_81]
Scroby Sands [OWF_82]
Kincardine [OWF_83]
Dogger Bank - Creyke Beck B [OWF_87]
Thanet [OWF_89]
Dogger Bank - Creyke Beck A [OWF_90]
Aberdeen (EOWDC) [OWF_91]
Greater Gabbard [OWF_93]
Galloper [OWF_94]
Dogger Bank – Teesside B (Sofia)
[OWF_101]
East Anglia ONE [OWF_103]
East Anglia Three [OWF_107]
Dogger Bank C - Teesside A [OWF_115]
Hywind [OWF_105]
Moray West [OWF_110]
Moray East [OWF_120]
Beatrice [OWF_135]
Inner Sound [OOE_37]
EMEC Scapa Flow [OOE_39]
EMEC Bilia Croo [OOE_40]
Deer Sound [OOE_41]
EMEC Shapinsay Sound [OOE_42]
EMEC Fall of Warness [OOE_44]

<p>Holyhead Deep [OOE_01] West Anglesey Demonstration Zone [OOE_03] Mona [OWF_11] Celtic Interconnector [SC_31] Fair Head Phase 1 [OOE_26] Forthwind [OWF_45] Raz Blanchard [OOE_35] Berwick Bank [OWF_55] Sheringham Shoal Extension [OWF_62] East Anglia Two [OWF_95] Hornsea Project Three [OWF_96] Norfolk Vanguard West [OWF_97] East Anglia One North [OWF_99] Norfolk Boreas [OWF_104] Norfolk Vanguard East [OWF_106] Salamander [OWF_112] Pentland Floating [OWF_164] Morlais Orbital O2 [OOE_43]</p>	Tier 2	Assessment presented in Section 21.13.2 of Volume II, Chapter 21: Population and Human Health (Revised March 2026)	<p><u>Tier 1 + Tier 2 + Tier 3</u> C: Local Area – Significant (Positive); Ireland - Moderate (Positive) O: Local Area – Significant (Positive); Ireland - Moderate (Positive) D: Local Area – Significant (Positive); Ireland - Moderate (Positive)</p>	No additional mitigation required	<p><u>Tier 1 + Tier 2 + Tier 3</u> C: Local Area – Significant (Positive); Ireland - Moderate (Positive) O: Local Area – Significant (Positive); Ireland - Moderate (Positive) D: Local Area – Significant (Positive); Ireland - Moderate (Positive)</p>
<p>Arklow Bank Wind Park 1 [OWF_01] Gwynt Glas [OWF_10] Llyr 1 [OWF_12] Llyr 2 [OWF_14] Morecambe [OWF_20] Isle of Man (Moor Vannin) [OWF_22] North Channel Wind 2 [OWF_31] North Channel Wind 1 [OWF_34]</p>	Tier 3	Assessment presented in Section 21.13.2 of Volume II, Chapter 21: Population and Human Health (Revised March 2026)	<p><u>Tier 1 + Tier 2 + Tier 3</u> C: Local Area – Significant (Positive); Ireland - Moderate (Positive) O: Local Area – Significant</p>	No additional mitigation required	<p><u>Tier 1 + Tier 2 + Tier 3</u> C: Local Area – Significant (Positive); Ireland - Moderate (Positive) O: Local Area – Significant</p>

Machair [OWF_40]	(Positive); Ireland - Moderate (Positive)	(Positive); Ireland - Moderate (Positive)
Outer Dowsing [OWF_60]		
Dogger Bank South (West) [OWF_77]	D: Local Area – Significant	D: Local Area – Significant
Morven [OWF_79]		
Bowdun [OWF_85]	(Positive); Ireland - Moderate (Positive)	(Positive); Ireland - Moderate (Positive)
Dogger Bank South (East) [OWF_86]		
Ossian [OWF_88]		
North Falls [OWF_92]		
Five Estuaries [OWF_98]		
Bellrock [OWF_102]		
Flora [OWF_108]		
Muir Mhòr [OWF_111]		
Campion [OWF_116]		
Spiorad na Mara [OWF_126]		
Caledonia [OWF_127]		
Cedar [OWF_132]		
Broadshore [OWF_151]		
Aspen [OWF_152]		
Green Volt [OWF_153]		
Scaraben [OWF_160]		
Sinclair [OWF_161]		
Talisk [OWF_162]		
Genos [OWF_165]		
Marram [OWF_167]		
Havbredey [OWF_169]		
Stromar [OWF_170]		
West of Orkney [OWF_171]		

[Buchan \[OWF_172\]](#)
[Culzean \[OWF_187\]](#)
[Ayre \[OWF_188\]](#)
[Harbour Energy South \[OWF_190\]](#)
[Beech \[OWF_192\]](#)
[Arven \[OWF_253\]](#)
[Stoura \[OWF_261\]](#)
[Mares Connect \[SC_05\]](#)
[Erebus/Valorous Potential Cable Route \[SC_26\]](#)
[LirC \[SC_60\]](#)
[IceLink \(Interco Iceland-UK\) \[SC_111\]](#)
[Atlantic Super Connection \[SC_112\]](#)
[Quad 204 FPSO \(Power from Shore\) \[SC_115\]](#)

Cumulative Impact 2: Increase in Employment

See Tier 1 projects for Cumulative Impact 2	Tier 1	Assessment presented in Section 21.13.3 of Volume II, Chapter 21: Population and Human Health (Revised March 2026)	<u>Tier 1 + Tier 2 + Tier 3</u>	No additional mitigation required	<u>Tier 1 + Tier 2 + Tier 3</u>
See Tier 2 projects for Cumulative Impact 2	Tier 2		C: Local Area – Significant (Positive); Ireland - Moderate (Positive)		C: Local Area – Significant (Positive); Ireland - Moderate (Positive)
See Tier 3 projects for Cumulative Impact 2	Tier 3		O: Local Area – Significant (Positive); Ireland - Moderate (Positive)		O: Local Area – Significant (Positive); Ireland - Moderate (Positive)

D: Local Area – Significant (Positive); Ireland - Moderate (Positive)

D: Local Area – Significant (Positive); Ireland - Moderate (Positive)

Cumulative Impact 3: Tourism Sector Impacts

See Tier 1 projects for Cumulative Impact 3	Tier 1	Assessment presented in Section 21.13.4 of Volume II, Chapter 21: Population and Human Health (Revised March 2026)	<u>Tier 1 + Tier 2 + Tier 3</u>	No additional mitigation required	<u>Tier 1 + Tier 2 + Tier 3</u>
See Tier 2 projects for Cumulative Impact 3	Tier 2		C: Local Area – Not Significant		C: Local Area – Not Significant
See Tier 3 projects for Cumulative Impact 3	Tier 3		O: Local Area – Not Significant D: Local Area – Not Significant		O: Local Area – Not Significant D: Local Area – Not Significant

Cumulative Impact 4: Tourism and Recreation Assets Impacts

See Tier 1 projects for Cumulative Impact 4	Tier 1	Assessment presented in Section 21.13.5 of Volume II, Chapter 21: Population and Human Health (Revised March 2026)	<u>Tier 1 + Tier 2 + Tier 3</u>	No additional mitigation required	<u>Tier 1 + Tier 2 + Tier 3</u>
See Tier 2 projects for Cumulative Impact 4	Tier 2		C: Imperceptible - Not Significant		C: Imperceptible - Not Significant
See Tier 3 projects for Cumulative Impact 4	Tier 3		O: Imperceptible - Not Significant D: Imperceptible - Not Significant		O: Imperceptible - Not Significant D: Imperceptible - Not Significant

Cumulative Impact 5: Residential Amenities and Community Facilities Impacts

See Tier 1 projects for Cumulative Impact 5	Tier 1				
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See Tier 2 projects for Cumulative Impact 5	Tier 2	Assessment presented in Section 21.13.6 of	<u>Tier 1 + Tier 2 + Tier 3</u>	No additional mitigation required	<u>Tier 1 + Tier 2 + Tier 3</u>
See Tier 3 projects for Cumulative Impact 5	Tier 3	Volume II, Chapter 21: Population and Human Health (Revised March 2026)	C: Local Area – Not Significant O: Local Area – Not Significant D: Local Area – Not Significant		C: Local Area – Not Significant O: Local Area – Not Significant D: Local Area – Not Significant

24.3 References

Environmental Protection Agency (EPA) (2022) Guidelines on the information to be contained in Environmental Impact Assessment Reports. https://www.epa.ie/publications/monitoring--assessment/assessment/EIAR_Guidelines_2022_Web.pdf [Accessed: 26 February 2026].

Planning Inspectorate (2024) Nationally Significant Infrastructure Projects: Advice on Cumulative effects assessment. Published 20 September 2024; last updated 25 March 2025. The Planning Inspectorate. <https://www.gov.uk/guidance/nationally-significant-infrastructure-projects-advice-on-cumulative-effects-assessment> [Accessed: 26 February 2026].

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