

Addendum to the
Environmental Impact
Assessment Report

NISA
North Irish Sea Array

Volume 11 - Wider Scheme Appendices

Appendix A29.2

Cumulative Impact Assessment



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Appendix 29.2: Cumulative Visual Impact Assessment at Representative Viewpoint Locations

North Irish Sea Array Windfarm Ltd (NISA, hereafter referred to as ‘the Developer’) has been considering the Request for Further Information (RFI) issued by An Bord Pleanála (now An Coimisiún Pleanála) as well as the third-party submissions received following public consultation. At An Coimisiún Pleanála’s behest, the Developer has also continued to consult with stakeholders in respect of the 2024 planning application throughout 2024-2026. The Developer has refined elements of the design to respond to the third-party submissions, the continued public and stakeholder consultation and the RFI (further details on the design refinements are provided in Appendix A5.1: Design Refinements). Amendments are therefore required to Appendix 29.2 Cumulative Visual Impact Assessment at Representative Viewpoint Locations of the 2024 Environmental Impact Assessment Report (EIAR). Full details of consultation undertaken can be found in Appendix A1.2 in the Addendum to the EIAR.

For the purposes of clarity, this document shall be read in conjunction with the Appendix 29.2 submitted as part of the 2024 EIAR.

Any cross reference to a chapter, section, table, image, figure or appendix within this document is to another location within the Addendum to the EIAR unless explicitly stated otherwise. Any cross reference to anything included in the 2024 EIAR will be clearly labelled as such.

Text in bold is only used throughout this document to indicate where changes are required, and what is subsequently driving them. Text in italics is text from a section of the 2024 EIAR which is deleted, or quotations from other documents (as explicitly stated). Replacement text is in normal font.

Only tables which have been updated from the 2024 EIAR, or entirely new tables, have been included in the Addendum to the EIAR. These tables can be identified by the “A” prefix in the table caption. Any changes within the updated table, in comparison to tables within the 2024 EIAR, are indicated by grey shading in the relevant cell, column or row, as necessary.

The sections relevant to Appendix 29.2 in the RFI are included below.

RFI Section	RFI	Relevance to Chapter
2 (a)	The Irish Coast Guard (IRCG), through the Department of Transport, has raised concerns in relation to the layout of the proposed development with respect to search-and-rescue (SAR) access. The applicant is requested to consult with the IRCG, in addressing these concerns, and provide further information and clarification on such matters.	The Developer has prepared updated layouts in consultation with the IRCG for both Project Options (see Section 6.2.3 Chapter 6 –Description of the Proposed Development for further details). These updated layouts have been assessed in this document. The refinements to the wind turbine (WTG) layouts have necessitated revisions to the SLVIA supported by updated Zone of Theoretical Visibility (ZTV) maps (Chapter 29, Section 29.3) and verifiable photomontages (Chapter 29, Section 29.5 and Volume 7C1 SLVIA Photomontages). These refinements are reflected in the updated assessment contained within this appendix.
5	The Marine Institute in their observation raises concerns in relation to the methodology applied in the submitted cumulative effects assessment and the manner in which the information is presented, noting the lack of a standard Irish methodology in relation to CEA. The applicant is advised that guidance exists in the UK, namely Nationally Significant Infrastructure Projects: Advice on Cumulative Effects Assessment - GOV.UK, September 2024 (NSIP, 2024).	The Cumulative Effects Assessment has been updated to incorporate the Nationally Significant Infrastructure Projects: Advice on Cumulative Effects Assessment Guidance.

RFI Section	RFI	Relevance to Chapter
	The applicant is requested to revise the submitted cumulative assessment in line with NSIP (2024) and submit a standalone document to clearly demonstrate the CEA conclusions. In the interests of consistency and transparency, the applicant is requested to complete the assessment in accordance with the templates provided in the NSIP (2024), namely “Appendix 1: Matrix 1 – Identification of ‘other development’ for CEA” and “Appendix 2: Matrix 1 – Assessment matrix” (see attached Appendix B)...	
13 (b)	Meath County Council raises concerns in relation to the submitted assessment of the visual impact of the proposal on views from historic sites within Meath, in particular from Brú na Bóinne (located circa 30km inland and west of the array area). Having regard to the sites UNESCO World Heritage designation, the applicant is requested to assess the proposed development having regard to the World Heritage Convention UNESCO Guidance Notes as they relate to visual impact assessment and wind energy projects, including the documents ‘Guidance and Toolkit for Impact Assessments in a World Heritage Context’ (UNESCO, 2022), ‘Guidance for Wind Energy Projects in a World Heritage Context’ (UNESCO, 2023), and available UNESCO case studies relating to the assessment of offshore projects on World Heritage sites.	Additional viewpoints have been included in the seascape impact assessment to address the concerns raised by Meath County Council.

29.2 Cumulative Visual Impacts at Representative Viewpoint Locations

There are no changes to text at the beginning this section. Refer to Section 29.2 of Appendix 29.2 of the 2024 EIAR.

However, there is a change to table in Appendix 29.2 as a result of including 5 additional viewpoints and the change in the layouts of the project Option 1 and Option 2 resulting in changed visual impact assessments at some of the VPs. The five turbine Kellystown Wind Farm, which lies approximately 8km north of Drogheda, and just to the east of the M1 motorway, has also been granted planning permission since the original EIAR was prepared for the proposed development. Cumulative ZTV maps and Cumulative wireframe views within the photomontage set have been updated to reflect the changes to the proposed layouts as well as those of the other Phase 1 projects and the addition of Kellystown Wind Farm.

Table A1

VP No.	Location	Other Offshore / Onshore Wind Arrays potentially visible in conjunction with the proposed development	Context	Cumulative Impact
VP1	Knockree Summit Co. Down (NI)	Yes	<p>The Oriel Array will be considerably closer and more noticeable than the proposed development. They are closely aligned in perspective but do not overlap and the proposed development will be barely discernible in the context of the Oriel Array due to scale and distance.</p> <p>The permitted Kellystown onshore wind farm would be potentially visible to west of the offshore arrays within a discrete land-based setting. Although a similar distance to the proposed development, the smaller Kellystown turbines appear further away and are less noticeable in this context.</p> <p>The vast majority of the broad sea horizon remains clear of Wind Turbine Generators (WTGs).</p> <p>The Dublin / Codling arrays will not be discernible from here.</p>	Low-negligible
VP2	Ballymartin, Co. Down (NI)	Yes	<p>The Oriel Array will be considerably closer and more noticeable than the proposed development. There is a modest but distinct lateral separation between the arrays, which is reinforced by the scale differential between turbines, due to relative viewing distances. Indeed, the proposed development will be barely discernible in the context of the Oriel Array.</p> <p>The permitted Kellystown onshore wind farm would be potentially visible slightly to west of the Oriel Array within a discrete land-based setting. Although a similar distance to the proposed development, the smaller Kellystown turbines appear further away and are less noticeable in this context.</p> <p>The vast majority of the broad sea horizon remains clear of WTGs.</p> <p>The Dublin / Codling arrays will not be discernible from here.</p>	Low-negligible
VP3	Kilkeel, Co. Down (NI)	Yes	<p>The Oriel Array will be considerably closer and more noticeable than the proposed development. There is a modest but distinct lateral separation between the arrays, which is reinforced by the scale differential between turbines, due to relative viewing distances. Indeed, the proposed development will be barely discernible in the context of the Oriel Array.</p> <p>The permitted Kellystown onshore wind farm would be potentially visible slightly to west of the Oriel Array within a discrete land-based setting. Although a similar distance to the proposed development, the smaller Kellystown turbines appear further away and are less noticeable in this context.</p> <p>The vast majority of the broad sea horizon remains clear of WTGs.</p> <p>The Dublin / Codling arrays will not be discernible from here.</p>	Low-negligible
VP4	Greencastle Ferry Terminal, Co. Down (NI)	Yes	<p>The eastern end of the Oriel Array overlaps in perspective with the majority of the proposed development in the far distance.</p> <p>Whilst this may generate some sense of visual clutter and scale / distance confusion on very clear days when the proposed development is visible, it will be barely discernible in the context of the much closer and perceptibly larger Oriel Array. The condensed view of the two arrays also limits the amount of the seaward horizon occupied by turbines.</p> <p>The Dublin / Codling arrays will not be discernible from here.</p>	Low

VP No.	Location	Other Offshore / Onshore Wind Arrays potentially visible in conjunction with the proposed development	Context	Cumulative Impact
VP5	Greenore Ferry Terminal, Co. Louth	Yes	<p>The nearer Oriel Array overlaps in perspective with the few visible turbines of the NISA Array in the far distance beyond the headland. Whilst this may generate some visual scale / distance confusion for the viewer on very clear days when the proposed development is visible, it will be barely discernible in the context of the much closer and perceptibly larger Oriel Array.</p> <p>Approximately half of the visible sea horizon will be occupied by WTGs with the Oriel Array contributing to the majority of this coverage.</p> <p>The Dublin / Codling arrays will not be discernible from here.</p>	Low-negligible
VP6	Aghameen, Co. Louth	Yes	<p>The southern end of the Oriel Array overlaps in perspective with the northern end of the proposed development in the far distance, but not in a manner than generates visual clutter. There may be some sense of scale / distance confusion on very clear days when the proposed development is visible, but it will be barely discernible in the context of the much closer and perceptibly larger Oriel Array.</p> <p>The slight overlap and between the arrays, and the scale differential between turbines that generates diminishing perspective, visually suggests that this could be a single extensive development stretching from the mid to far distance.</p> <p>Over half of the visible sea horizon will be occupied by WTGs with a similar contribution to this coverage from both arrays.</p> <p>The Dublin / Codling arrays will not be discernible from here.</p>	Medium-low
VP7	Barnevave Summit, Coolea Mountains, Co. Louth	Yes	<p>Although there is some lateral overlap between the much nearer Oriel Array and the proposed development in the far distance, the elevation of this viewpoint affords vertical separation as the Oriel WTGs sit predominantly below the sea horizon the proposed WTGs above it. The actual separation distance between the arrays is not clearly apparent due to the absence of a distinct gap between them but there is strong scale differential between the nearer and further WTGs. Indeed, the proposed development, which will only be visible very clear days, will be barely discernible in the context of the Oriel Array.</p> <p>The permitted Kellystown onshore wind farm would be visible to west of the offshore array within a discrete land-based setting. Although a similar distance to the proposed development, the smaller Kellystown turbines appear further away and are less noticeable in this context.</p> <p>The Dublin / Codling arrays will not be discernible from here.</p>	Low
VP8	Coolea Point, Co. Louth	Yes	<p>The much nearer Oriel Array overlaps fully in perspective with the turbines of the proposed development in the far distance.</p> <p>The permitted Kellystown onshore wind farm would be visible considerably to west of the offshore arrays within a discrete land-based setting. Although a similar distance to the proposed development, the smaller Kellystown turbines appear further away and are less noticeable in this context.</p> <p>Whilst this may generate some visual scale / distance confusion for the viewer on very clear days when the proposed development is visible, it will be barely discernible in the context of the much closer and perceptibly larger Oriel Array.</p>	Low

VP No.	Location	Other Offshore / Onshore Wind Arrays potentially visible in conjunction with the proposed development	Context	Cumulative Impact
			Furthermore, despite the gap between the arrays not being apparent in this aligned view of the development, the starkness of the scale differential between the WTGs of each array makes it clear that there is a considerable spatial separation between them. The Dublin / Codling arrays will not be discernible from here.	
VP9	Gyles Quay, Co. Louth	Yes	The Oriel Array will be considerably closer and more noticeable than the proposed development. There is a small lateral separation between the arrays, which is reinforced by the scale differential between turbines, due to relative viewing distances. Indeed, the proposed development will be barely discernible in the context of the Oriel Array in all but very clear viewing conditions. Approximately half of the visible sea horizon will be occupied by WTGs with the Oriel Array contributing to the majority of this coverage. The Dublin / Codling arrays will not be discernible from here.	Low
VP10	Blackrock Promenade, Co. Louth	Yes	The Oriel Array will be considerably closer and more noticeable than the proposed development. There is a modest but distinct lateral separation between the arrays, which is reinforced by the scale differential between turbines, due to relative viewing distances. Indeed, the proposed development will be barely discernible in the context of the Oriel Array. Approximately half of the visible sea horizon will be occupied by WTGs. The Dublin / Codling arrays will not be discernible from here.	Low
VP11	Dunany Bay Beach, Co. Louth	Yes	The Oriel Array will be closer and more noticeable than the proposed development. There is a broad lateral separation between the arrays, which will be experienced in succession (viewer turning their head) rather than as a combined view. The separation is further reinforced by the noticeable scale differential between turbines, due to relative viewing distances. The majority of the broad sea horizon remains clear of WTGs, but the combined lateral extent of the arrays is still considerable in this broad context. The Dublin / Codling arrays will not be discernible from here.	Medium
VP12	Lurganboy Beach, Co. Louth	Yes	The Oriel Array will be closer and more noticeable than the proposed development. There is a broad lateral separation between the arrays, which will be experienced in succession (viewer turning their head) rather than as a combined view. The separation is further reinforced by the noticeable scale differential between turbines, due to relative viewing distances. The majority of the broad sea horizon remains clear of WTGs, but the combined lateral extent of the arrays is still considerable in this broad context. The Dublin / Codling arrays will not be discernible from here.	Medium
VP13	Clogherhead Beach, Co. Louth	No	There will be no cumulative effects with other proposed Offshore Wind Farms due to the absence of intervisibility with other Phase 1 developments from this location.	Negligible

VP No.	Location	Other Offshore / Onshore Wind Arrays potentially visible in conjunction with the proposed development	Context	Cumulative Impact
VP14	Local Road at Castlecoe Hill, Co. Louth	Yes	<p>The Oriel Array will be closer and more noticeable than the proposed development, albeit the former is contained within a partially obscured section of the seaward horizon and the latter is on a more open section. There is a broad lateral separation between the arrays, which will be experienced in succession (viewer turning their head) rather than as a combined view. The separation is further reinforced by a minor scale differential between turbines, due to relative viewing distances.</p> <p>The majority of the broad sea horizon remains clear of WTGs, but the combined lateral extent of the arrays is still considerable in this broad context.</p> <p>The Dublin / Codling arrays will not be discernible from here.</p>	Medium
VP15	Termonfeckin Beach, Co. Louth	Yes	<p>The Oriel Array and the proposed development are seen at similar viewing distances and WTG scale, albeit with the former occupying a modest lateral extent beyond the northern end of the beach and the latter a broader extent of the direct offshore view. There is a broad lateral separation between the arrays, which will be experienced in succession (viewer turning their head) rather than as a combined view.</p> <p>The majority of the broad sea horizon remains clear of WTGs, but the combined lateral extent of the arrays is still considerable in this broad context.</p> <p>The Dublin / Codling arrays will not be discernible from here.</p>	Medium
VP16	Bettystown Beach, Co. Meath	Yes	<p>The nearer proposed development is seen with slightly larger WTG scale than the more distant Oriel Array, with the latter occupying a modest lateral extent beyond the northern end of the beach and the former, a broader extent of the direct offshore view. There is a broad lateral separation between the arrays, which will be experienced in succession (viewer turning their head) rather than as a combined view.</p> <p>The majority of the broad sea horizon remains clear of WTGs.</p> <p>The Dublin / Codling arrays will not be discernible from here.</p>	Medium-low
VP17	Amenity Area, Laytown, Co. Meath	Yes	<p>The nearer proposed development is seen with larger WTG scale and lateral extent than the more distant Oriel Array, with the latter occupying a modest lateral extent beyond the northern end of the beach and the former, a broader extent of the direct offshore view. There is a broad lateral separation between the arrays, which is reinforced by the scale differential between the respective turbines.</p> <p>The majority of the broad sea horizon remains clear of WTGs</p> <p>The Dublin / Codling arrays will not be discernible from here.</p>	Medium-low
VP18	Dowth Passage Tomb, Co. Meath	No	There will be no cumulative effects with other proposed East coast Phase 1 Offshore Wind Farms or the permitted Kellystown onshore wind farm due to the fact that the proposed development is not visible from here.	Negligible
VP18a	Newgrange Passage Tomb (Eastern side)	No	There will be no cumulative effects with other proposed East coast Phase 1 Offshore Wind Farms due to the fact that the proposed development is not visible from here.	Negligible

VP No.	Location	Other Offshore / Onshore Wind Arrays potentially visible in conjunction with the proposed development	Context	Cumulative Impact
VP18b	Knowth Passage Tomb	No	There will be no cumulative effects with other proposed East coast Phase 1 Offshore Wind Farms due to the fact that the proposed development is not visible from here.	Negligible
VP19	Kennetstown, Co. Meath	Yes	The nearer proposed development is seen with larger WTG scale and lateral extent than the more distant Oriel Array, but they are both distant features of this inland view. There is a broad lateral separation between the arrays, which is reinforced by the scale differential between the respective turbines. Over half of the broad sea horizon remains clear of WTGs The Dublin / Codling arrays will not be discernible from here.	Low
VP20	Gormanston Beach, Co. Meath	Yes	The nearer proposed development is seen with larger WTG scale and lateral extent than the more distant Oriel Array, with the latter occupying a modest lateral extent at the base of the Cooley Peninsula to the north and the former, a broader extent of the direct offshore view. There is a broad lateral separation between the arrays, which is reinforced by the scale differential between them. The majority of the broad sea horizon remains clear of WTGs The Dublin / Codling arrays will not be discernible from here.	Low
VP21	Balbriggan Beach, Co. Fingal	Yes	The nearer proposed development is seen with larger WTG scale and lateral extent than the more distant Oriel Array, with the latter occupying a modest lateral extent at the base of the Cooley Peninsula to the north and the former, a broader extent of the direct offshore view. There is a considerable lateral separation between the arrays, which is reinforced by the scale differential between them. As the Oriel Array is seen to the fore of the Cooley Peninsula it does not contribute to the extent of open sea horizon occupied by WTGs, however, approximately half of the sea view is occupied by WTGs. The Dublin / Codling arrays will not be discernible from here.	Low
VP22	R108 at Snowtown, Co. Meath	Yes	The nearer proposed development is seen with larger WTG scale and lateral extent than the more distant Oriel Array, which will only be visible in clear viewing conditions and they are both distant features of this inland view. There is a broad lateral separation between the arrays, which is reinforced by the scale differential between the respective turbines. The majority of the broad sea horizon remains clear of WTGs The Dublin / Codling arrays will not be discernible from here.	Low
VP23	Ardgillen Castle Grounds, Co. Fingal	No	There will be no cumulative effects with other proposed Offshore Wind Farms	Negligible

VP No.	Location	Other Offshore / Onshore Wind Arrays potentially visible in conjunction with the proposed development	Context	Cumulative Impact
VP24	Amenity Area Skerries, Co. Fingal	Yes	<p>The nearer proposed development is seen with much larger WTG scale and lateral extent than the distant Oriel Array, which will only be visible in clear viewing conditions at the base of the Cooley Peninsula. There is a reasonable separation between the arrays, which is reinforced by the scale differential between them.</p> <p>As the Oriel Array is seen to the fore of the Cooley Peninsula, it does not contribute to the extent of open sea horizon occupied by WTGs and it will be barely noticeable in the context of the nearer proposed development.</p> <p>A small number of turbines from the Dublin / Codling arrays will be potentially discernible from here between Lambay Island and the headland at Rush in a southerly direction. However, the nearest Dublin Array WTGs are 32km away and Codling, over 50km. Again, in comparison to the nearer proposed development directly offshore, these southerly schemes will be barely discernible and in a divergent direction to both the proposed development and Oriel. The only notable effect is that offshore WTGs are now potentially visible throughout nearly 180 degrees of seascape.</p>	Low-negligible
VP25	Loughshinny, Co. Fingal	Yes	<p>The nearer proposed development is seen with much larger WTG scale and lateral extent than the distant Oriel Array, which will be barely visible above the near headland and only in clear viewing conditions at the base of the Cooley Peninsula. There is a broad reasonable separation between the arrays, which is reinforced by the scale differential between them.</p> <p>As the Oriel Array is seen to the fore of the Cooley Peninsula, it does not contribute to the extent of open sea horizon occupied by WTGs and it will be barely noticeable in the context of the nearer proposed development.</p> <p>The Dublin / Codling arrays will be potentially discernible from here between Lambay Island and the headland at Rush in a southerly direction stacked together in a consolidated section of the seaward skyline. The nearest Dublin Array WTGs are 28km away and Codling, over 46km. In comparison to the nearer proposed development directly offshore, these southerly schemes will be much less noticeable and in a divergent direction to both the proposed development and Oriel. The most notable effect is that offshore WTGs are now potentially visible throughout nearly 180 degrees of seascape and the southerly arrays contribute vastly greater numbers of turbines to the scene.</p>	Low
VP26	Coast Road Rush, Co. Fingal	Yes	<p>The distant Oriel Array will be difficult to discern above the intervening headland / offshore island and will not materially contribute to cumulative impacts relative to the much nearer proposed development, which is more directly offshore.</p> <p>The Dublin / Codling arrays will not be discernible from this particular viewpoint location as views to the south are obscured. However, from the southern side of the small headland at Rush they are likely to be visible, but in a context where the Oriel will not be. The nearest Dublin Array turbines will be around 26km to the south and the nearest Codling turbines, 43km away.</p>	Low-negligible
VP27	Portrane, Co. Fingal	No	There will be no cumulative effects with other proposed Offshore Wind Farms due to the absence of intervisibility with other Phase 1 developments from this location.	Negligible

VP No.	Location	Other Offshore / Onshore Wind Arrays potentially visible in conjunction with the proposed development	Context	Cumulative Impact
VP28	Donabate Beach, Co. Fingal	No	There will be no cumulative effects with other proposed Offshore Wind Farms due to the absence of intervisibility with other Phase 1 developments from this location.	Negligible
VP29	Malahide, Co. Fingal	No	There will be no cumulative effects with other proposed Offshore Wind Farms due to the absence of intervisibility with other Phase 1 developments from this location.	Negligible
VP30	Portmarnock Beach, Co. Fingal	No	There will be no cumulative effects with other proposed Offshore Wind Farms due to the absence of intervisibility with other Phase 1 developments from this location.	Negligible
VP31	Sutton Promenade, Co. Fingal	No	There will be no cumulative effects with other proposed Offshore Wind Farms due to the absence of intervisibility with other Phase 1 developments from this location.	Negligible
VP32	Howth Harbour, Co. Fingal	No	There will be no cumulative effects with other proposed Offshore Wind Farms due to the absence of intervisibility with other Phase 1 developments from this location.	Negligible
VP33	Howth Head, Co. Fingal	Yes	To the north, the Oriel Array is over 55km away and will not be discernible beyond the proposed development, which itself is difficult to discern. In the near-opposite direction to the south the Dublin Array and Codling Array will form a dense aligned cluster. The vast Irish Sea horizon between these southerly Arrays and the proposed development will remain uninterrupted.	Low-negligible
VP34	Great South Wall at Poolbeg Lighthouse (Dublin City County)	Yes	The Dublin Array and Codling Array will together stretch across the southern extents of Dublin Bay. However, the turbine blades of the proposed development will be barely discernible above the low northern stretch of land that defines the northern section of Dublin Bay at distances beyond 35km. Thus, the proposed development will be barely noticeable in the context of the southerly arrays and its contribution to cumulative effects, very limited.	Low-negligible
VP35	Sandymount Strand, Dublin City County	No	There will be no cumulative effects with other proposed Offshore Wind Farms as the proposed development are not discernible.	Negligible
VP36	Lambay Island – Summit, County Dublin (Fingal)	Yes	<p>The nearer extents of the proposed development is seen with considerably larger WTG scale and lateral extent than the distant Oriel Array (beyond 44km away), which will only be visible in clear viewing conditions at the base of the Cooley Peninsula. There is a relatively small lateral separation between the arrays, but a much stronger sense of separation generated by the scale differential between them.</p> <p>As the Oriel Array is seen to the fore of the Cooley Peninsula, it does not contribute to the extent of open sea horizon occupied by WTGs and it will be barely noticeable in the context of the nearer WTGs</p> <p>All of the WTGs from the Dublin / Codling arrays will be visible from here in open sea to the south in a dense cluster that is only 20 degrees wide in terms of included angle.</p> <p>The nearest Dublin Array WTGs are 20km away and Codling, around 40km. They are marginally further away than the proposed WTGs and in the opposite direction to both the array area and Oriel.</p> <p>Whilst the open sea to the west remains unoccupied by WTGs, the coastal context north and south is heavily occupied by offshore wind developments albeit at reasonable distances.</p>	Medium

VP No.	Location	Other Offshore / Onshore Wind Arrays potentially visible in conjunction with the proposed development	Context	Cumulative Impact
VP37	Lambay Island – Pier, County Dublin (Fingal)	Yes	<p>The nearer proposed development is seen with considerably larger WTG scale and lateral extent than the distant Oriel Array (beyond 44km away), which will only be visible as blade sets (due to earth curvature) in clear viewing conditions at the base of the Cooley Peninsula. There is a relatively small lateral separation between the arrays, but a much stronger sense of separation generated by the scale differential between them.</p> <p>As the Oriel Array is seen to the fore of the Cooley Peninsula, it does not contribute to the extent of open sea horizon occupied by WTGs and it will be barely noticeable in the context of the nearer proposed development.</p> <p>The Dublin and Codling arrays to the south will not be visible from here due to screening by Lambay Island itself.</p>	Low-negligible
VP38	Annalong, Co. Down (NI)	Yes	<p>Although partially screened, the Oriel Array will be considerably closer and more noticeable than the proposed development. There is a distinct lateral separation between the arrays, which is reinforced by the scale differential between turbines, due to relative viewing distances. Indeed, the proposed development will be barely discernible in the context of the Oriel Array at this distance.</p> <p>The vast majority of the broad sea horizon remains clear of WTGs.</p> <p>The Dublin / Codling arrays will not be discernible from here.</p>	Low-negligible
VP39	Deer Park, Dublin (Dun Laoghaire-Rathdown)	No	There will be no cumulative effects with other proposed Offshore Wind Farms due to the absence of intervisibility with other East coast Phase 1 developments from this location.	Negligible
VP40	Blackrock Park, Dublin (Dun Laoghaire-Rathdown)	Yes	Whilst the Dublin Array will be partially visible at a reasonable scale from some parts of Blackrock Park, the proposed development will be barely discernible at this distance above the low section of the north Dublin Bay Coastline and at a widely disparate viewing angle to the Dublin Array	Low-negligible
VP41	Coast Road, Monkstown (Dun Laoghaire-Rathdown)	Yes	Whilst a small number of the WTGs from the Dublin Array will be partially visible at a reasonable scale from here, the proposed development will be barely discernible at this distance above the low section of the north Dublin Bay Coastline and at a widely disparate viewing angle to Dublin Array	Low-negligible
VP42	East Pier, Dun Laoghaire (Dun Laoghaire-Rathdown)	Yes	Whilst the Dublin Array will be partially visible at a reasonable scale from here, the small number of blades from the proposed development are unlikely to be noticed at this distance above the ascending slopes of Howth Head and at a widely disparate viewing angle to the Dublin Array	Negligible
VP43	Forty Foot, Sandycove, (Dun Laoghaire-Rathdown),	No	There will be no cumulative effects with other proposed Offshore Wind Farms	Negligible
VP44	Dalkey Hill, (Dun Laoghaire-Rathdown) Dublin	Yes	Whilst the Dublin Array and Codling Array will be visible at a reasonable scale from some parts of Dalkey Hill (mainly its south-east facing slopes), the proposed development will only be partially visible at a long viewing distance to the right of Howth Head. They will seldom be visible in the same context and only in the clearest of viewing conditions.	Low-negligible

VP No.	Location	Other Offshore / Onshore Wind Arrays potentially visible in conjunction with the proposed development	Context	Cumulative Impact
VP45	Three Rock Mountain, (Dun Laoghaire-Rathdown County), Dublin	Yes	At nearly 50km away the proposed development will only be visible in the clearest of viewing conditions and discernible only with scrutiny. Whereas the Dublin Array and the Codling Array will stretch uninterrupted at a much larger scale across much of the south-easterly sea horizon in a widely disparate viewing direction to the proposed development.	Low-negligible
VP46	Bray Head, (Co. Wicklow)	Yes	At just over 50km away the proposed development will only be visible in the clearest of viewing conditions and discernible only with scrutiny. Whereas the Dublin Array and the Codling Array will stretch uninterrupted at a much larger scale across much of the south-easterly sea horizon. There is a broad lateral separation between the proposed development and the more southerly arrays, which is reinforced by the scale differential between WTGs	Low-negligible
VP47	Sugar Loaf Summit, (Co. Wicklow) Codling	Yes	At over 55km away the proposed development will only be visible in the clearest of viewing conditions and discernible only with scrutiny. Whereas the Dublin Array and the Codling Array will stretch uninterrupted at a much larger scale across much of the south-easterly sea horizon. There is a broad lateral separation between the proposed development and the more southerly arrays, which is reinforced by the scale differential between WTGs	Low-negligible
VP56	Gormanston Castle (road outside)	No	There will be no cumulative effects with other proposed Offshore Wind Farms due to the absence of intervisibility with other East coast Phase 1 developments from this location.	Negligible
VP57	Hill of Skryne	Yes	There will be potential visibility of both the permitted Kellystown onshore wind farm and the proposed Oriel Array in conjunction with the proposed development. However, the proposed development is over 41.6km away, the Permitted Kellystown Wind Farm over 26km away and the Oriel Array closer to 50km away and at a disparate viewing angles. Because the Kellystown turbines are considerably smaller than their offshore counterparts, all the developments appear at a similarly small scale. These will all only be visible in the clearest of conditions with scrutiny.	Low-negligible
VP58	Hill of Tara	Yes	There will be potential visibility of both the permitted Kellystown onshore wind farm and the proposed Oriel Array in conjunction with the proposed development. However, the proposed development is over 45km away, the Permitted Kellystown Wind Farm over 29km away and the Oriel Array over 50km away and at a disparate viewing angle. These are all unlikely to all be discernible at such viewing distances and the smaller Kellystown turbines are also substantially screened by intervening vegetation.	Negligible