codling wind park

Environmental Impact Assessment Report

Volume 4

Appendix 5.2 Inter-related effects matrix


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APPENDIX 5.2 INTER-RELATED EFFECTS MATRIX

1 Introduction

1. Codling Wind Park Limited (hereafter 'the Applicant') is proposing to develop the Codling Wind Park (CWP) Project, which is located in the Irish sea approximately 13 - 22 km off the east coast of Ireland, at County Wicklow.

2. This appendix forms part of **Chapter 5 EIA Methodology** of the Environmental Impact Assessment Report (EIAR) for the CWP Project. The purpose of the EIAR is to provide the decision-maker, stakeholders and all interested parties with the environmental information required to develop an informed view of any likely significant effects resulting from the CWP Project, as required by the European Union (EU) Directive 2011/92/EU (as amended by Directive 2014/52/EU) (the EIA Directive). These provisions are transposed into Irish legislation in Part X of the Planning and Development Act 2000, as amended, and in Part 10 of the Planning and Development Regulations 2001, as amended.

3. The Environmental Protection Agency (EPA) Guidelines on the information to be contained in Environmental Impact Assessment Reports (EPA, 2022) states that:

> *The interactions between effects on different environmental factors should be addressed as relevant throughout the EIAR. For example, where it is established in the Hydrology section that there will be an increase in suspended solids in discharged surface waters during construction, then the Biodiversity section should assess the effect of that on sensitive aquatic receptors.*
>
> *It is general practice to include a matrix to show where interactions between effects on different factors have been addressed.*

4. In accordance with the above, this appendix provides a matrix to show at a broad level where across the EIAR potential inter-related effects on different receptor groups have been identified.

5. In addition to this appendix, an inter-related effects assessment is provided within each EIAR topic chapter (**Chapters 6 – 32**), that considers the potential for all relevant effects across multiple topics to interact, spatially and temporally, to create inter-related effects on a receptor group. This includes bringing together the findings of the individual assessment chapters to describe potential additional effects that may be of greater significance when compared to individual effects acting on a receptor group.

6. The term 'receptor group' is used to highlight the fact that the proposed approach to the inter-relationships assessment does not consider every individual receptor considered in the relevant EIAR chapters, but instead focuses on groups of receptors that may be sensitive to inter-related effects.

2 Construction and decommissioning phase

Table 1 Construction and decommissioning phase inter-related effects

	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Chapter 6 Marine Geology, Sediments and Coastal Processes		X	X						X																		
Chapter 7 Marine Water Quality	X		X	X	X																						
Chapter 8 Subtidal and Intertidal Ecology	X	X		X	X																						
Chapter 9 Fish, Shellfish and Turtle Ecology	X	X	X		X	X																					
Chapter 10 Ornithology	X		X	X												X											
Chapter 11 Marine Mammals				X																							
Chapter 12 Commercial Fisheries				X							X																
Chapter 13 Offshore Bats																X											
Chapter 14 Marine Archaeology & Cultural Heritage	X																										
Chapter 15 Seascape, Landscape and Visual Impacts											X																
Chapter 16 Shipping and Navigation							X																				
Chapter 17 Aviation, Military and Radar											X																
Chapter 18 Material Assets: Marine Infrastructure							X				X										X						
Chapter 19 Land Soils and Geology		X													X					X		X			X	X	
Chapter 20 Hydrology and Hydrogeology		X												X								X					
Chapter 21 Onshore Biodiversity														X				X	X	X							

	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Chapter 22 Archaeological, Architectural and Cultural Heritage																			X								
Chapter 23 Landscape and Visual Impacts										X																	
Chapter 24 Noise and Vibration																						X					
Chapter 25 Air Quality		X														X								X			
Chapter 26 Material Assets - Built Services														X													
Chapter 27 Traffic and Transport														X													
Chapter 28 Climate: Carbon Balance Assessment															X							X					
Chapter 29 Population																		X	X	X							
Chapter 30 Human Health														X	X				X	X		X					
Chapter 31 Waste & Resource Management														X									X				
Chapter 32 Risk of Major Accidents and Disasters																											

3 Operations phase

Table 2 Operations phase inter-related effects

	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Chapter 6 Marine Geology, Sediments and Coastal Processes			X						X																		
Chapter 7 Marine Water Quality	X		X	X	X																						
Chapter 8 Subtidal and Intertidal Ecology	X	X		X	X	X																					
Chapter 9 Fish, Shellfish and Turtle Ecology	X	X	X		X	X																					
Chapter 10 Ornithology	X		X	X																							
Chapter 11 Marine Mammals				X																							
Chapter 12 Commercial Fisheries				X							X																
Chapter 13 Offshore Bats																X											
Chapter 14 Marine Archaeology & Cultural Heritage	X																										
Chapter 15 Seascape, Landscape and Visual Impacts											X						X							X			
Chapter 16 Shipping and Navigation							X																				
Chapter 17 Aviation, Military and Radar											X																
Chapter 18 Material Assets: Marine Infrastructure							X				X	X									X						
Chapter 19 Land Soils and Geology																											
Chapter 20 Hydrology and Hydrogeology																											
Chapter 21 Onshore Biodiversity																			X								

	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Chapter 22 Archaeological, Architectural and Cultural Heritage																											
Chapter Landscape and Visual Impacts										X																	
Chapter 24 Noise and Vibration																						X					
Chapter 25 Air Quality																											
Chapter 26 Material Assets - Built Services																											
Chapter 27 Traffic and Transport																											
Chapter 28 Climate: Carbon Balance Assessment															X							X					
Chapter 29 Population										X	X																
Chapter 30 Human Health															X				X			X					
Chapter 31 Waste & Resource Management																											
Chapter 32 Risk of Major Accidents and Disasters																											