

MachairWind Offshore Windfarm

Appendix 5.1 Cumulative Projects Long and Short Lists



Key

Cumulative Project Construction Period

Unknown	
No activity on site	
Construction period	
Operational	
Decommissioning period	
Decommissioned	

MCW-DWF-ENV-REP-RHS-000044

Screened out: no temporal overlap	B1
Screened out: no spatial overlap with receptor ZOI	B2
Screened out: no pathway for impact on receptor	B3
Screened out: insufficient data/detail to conduct an assessment	B4
Screened in: potential for cumulative effects	C

Project Status

Tier 1	Projects which are operational (but not part of the baseline), under construction, those with consent and submitted but not yet determined;
Tier 2	All plans/projects assessed under Tier 1, plus those projects with a Scoping Report and/or Scoping Opinion
Tier 3	All plans/projects assessed under Tier 1 and Tier 2, plus those projects likely to come forward where a Crown Estate Scotland (CES) Option to Lease Agreement or equivalent has been granted (i.e., ScotWind and INTOG projects).

Notes

All upcoming projects / activities where a cumulative effect could be anticipated within the marine mammal Celtic and Greater North Sea and North Atlantic Management Units (MU) as described in Appendix 10.5 Cumulative Effects Assessment Screening and offshore windfarms in the Western Biologically Defined Minimum Population Scale (BDMPS) region as described in Appendix 11.5 Cumulative and In-Combination Mortality Calculations have been included within the cumulative long list. Each author is required to screen in / out included projects as necessary to form a Cumulative Short List. Projects categorised as 'Tier 1/ Baseline' are considered as part of the baseline for all receptor topics except offshore ornithology (see **Chapter 11 Offshore Ornithology**). Each topic chapter will then take forward the Cumulative Short List, reflecting the projects / activities identified as having possible effects on receptors.

Receptor topics to which this CEA-Long List does not apply / is not relevant include :

- **Chapter 12 Commercial Fisheries** - The ZOI for commercial fisheries is defined as the South West Coast Regional Inshore Fisheries Group (see **Section 12.12.2, Chapter 12 Commercial Fisheries**) and includes Special Areas of Conservation, Marine Protected Areas and aggregate and dredge disposal sites which for all other receptors are considered part of the baseline. Therefore, the relevant Projects, plans and activities for commercial fisheries have been identified within Chapter 12.
- **Chapter 18 Socio-economics** - The assessment doesn't consider individual projects but looks at the critical mass of the offshore wind sector and supply chain; as such, onshore projects do not require consideration for socio-economics.
- **Chapter 19 Greenhouse Gas Assessment** - All developments that emit, avoid, or sequester GHGs affect global atmospheric concentrations regardless of location. Therefore, the effects of GHG emissions are global and cumulative by nature. GHG emissions from other projects should not be individually assessed, as there is no basis for selecting which projects to assess cumulatively over any other. Therefore, cumulative effects in relation to GHG emissions from other projects or developments are not assessed as part of a CEA.
- **Chapter 20 Climate Change Risk Assessment** - Cumulative effects are not relevant to the CCR assessment, as the assessment considers the effects of climate change on the Project, rather than the Projects' effects on the environment or in combination with other developments.
- **Chapter 21 Major Accidents and Disasters** - The assessment has inherently accounted for interactions between the Project and other plans, projects and activities. The assessment approach for Major Accidents and Disasters, which considers the vulnerability of the Project to major accidents and disasters, does not assess potential cumulative effects on sensitive receptors, as a major accident and disaster event is a rare, isolated event, which does not have on-going impacts.

Regarding onshore projects / activities, the only topic to which these are considered to apply is **Chapter 16 Seascape, Landscape and Visual Impacts**. As described in that chapter, the cumulative assessment is based on the additional effect of the Project in conjunction with other developments of the same type i.e. other windfarms. A search of onshore windfarms within the 60 km ZOI for seascape, landscape and visual has not yielded any positive results and therefore onshore projects / activities are screened out of the CEA.

Potential impacts between the WDA, Offshore ECC and OnTDA are considered as part of the Combined Assessment within each technical topic chapter.

Any plans or projects that have the potential for a construction / commissioning CEA / in-combination assessment that commenced construction / commissioning between the end of the collection of MachairWind's baseline data and submission of the application will not be taken forward in the CEA. It is assumed that construction / commissioning will be completed before the start of construction of MachairWind and therefore will form part of the baseline.

Zones of Influence / Study Areas to inform geographic boundary within which the search for cumulative projects has been conducted:

Topic	Zoi / Study Area See individual chapters for rationale
Chapter 7 Marine Physical Environment	12 km
Chapter 8 Benthic Ecology	11 km
Chapter 9 Fish (including Basking Shark) and Shellfish	90 km
Chapter 10 Marine Mammals and Leatherback Turtle	Receptor MUs (See Appendix 10.5 Cumulative Effects Assessment Screening)
Chapter 11 Offshore Ornithology	Western BDMPS (see Appendix 11.5 Cumulative and In-Combination Mortality Calculations)
Chapter 13 Shipping and Navigation	92.6 km
Chapter 14 Offshore Archaeology and Cultural Heritage	50 km
Chapter 15 Military and Civil Aviation	92.6 km
Chapter 16 Seascape, Landscape and Visual Impacts	60 km
Chapter 17 Infrastructure and Other Marine Users	92.6 km

Development	Relevant Links	Industry	Location	Type	Status	Start Date	Operational Life	Additional Information	Data Source	Offshore Construction Indicative Timeline								WDA		ECC		Chapters													
										2029	2030	2031	2032	2033	2034	2035	2036	2037	Approximate Distance	Direction from	Approximate Distance	Direction from	Marine Physical Environment	Benthic Ecology	Fish (Including Basking Shark) and Shellfish	Marine Mammals and Leatherback Turtle	Offshore Ornithology	Shipping and Navigation	Offshore Archaeology and Cultural Heritage	Military and Civil Aviation	Seascape, Landscape and Visual Impacts	Infrastructure and Other Marine Users			
Pentland Floating Offshore Windfarm		Renewables	Scotland	Offshore Windfarm	Tier 1	2026	Unknown			Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	324 km	Northeast	360 km	Northeast	B2	B2	B2	C	B2	B2	B2	B2	B2	B2	B2	B2
Port Ellen Ferry Terminal-Harbour Development		Ports and Harbour developments	Scotland	Port/ Harbour	Tier 1	2025	Unknown			Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	37 km	Southeast	12 km	North	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	
Port of Ness Harbour, Isle of Lewis - Maintenance Dredge and Sea Disposal		Ports and Harbour developments	Scotland	Port/ Harbour	Tier 1	2023	4 years													255 km	North	292 km	North	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	
Rampion 2 Offshore Wind Farm		Renewables	England	Offshore Windfarm	Tier 1	Unknown	Unknown		https://rampion2.com/	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	710 km	Southeast	588 km	Southeast	B2	B2	B2	B2	C	B2	B2	B2	B2	B2	B2		
Rampion Offshore Wind Farm		Renewables	England	Offshore Windfarm	Tier 1 / Baseline	2018	20 years		https://www.rampionoffshore.com/	Green	Green	Green	Green	Green	Green	Green	Green	Green	710 km	Southeast	588 km	Southeast	B2	B2	B2	B2	C	B2	B2	B2	B2	B2	B2		
Rhyl Flats offshore wind farm		Renewables	Wales	Offshore Windfarm	Tier 1 / Baseline	2009	Unknown		https://uk.rwe.com/locations/rhyl-flats-offshore-wind-farm/	Green	Green	Green	Green	Green	Green	Green	Green	Green	336 km	Southeast	210 km	Southeast	B2	B2	B2	B2	C	B2	B2	B2	B2	B2	B2		
Robin Rigg East and West offshore wind farm		Renewables	Scotland	Offshore Windfarm	Tier 1 / Baseline	2010	Unknown		https://uk.rwe.com/locations/robin-rigg-east-and-west-offshore-wind-farm/	Green	Green	Green	Green	Green	Green	Green	Green	Green	223 km	Southeast	93 km	Southeast	B2	B2	B2	B2	C	B2	B2	B2	B2	B2	B2		
Spiorad na Mara (UK6N)		Renewables	Scotland	Offshore Windfarm	Tier 1	2031	35 years		https://northlandpowerscotwind.co.uk/spiorad-na-mara/	Green	Green	Green	Green	Green	Green	Green	Green	Green	242 km	North	276 km	North	B2	B2	B2	C	C	B2	B2	B2	B2	B2			
Talisk Offshore Wind Project		Renewables	Scotland	Offshore Windfarm	Tier 2	2030	30-35 years		https://www.magnoraoffshorewind.com/talisk/	Green	Green	Green	Green	Green	Green	Green	Green	Green	266 km	North	300 km	North	B2	B2	B2	B4	C	B2	B2	B2	B2	B2	B2		
The Northern Irish Sea Array (NISA) Offshore Wind Frsm		Renewables	Northern Ireland	Offshore Windfarm	Tier 2	2029	Unknown		https://www.northernirishsearray.ie/	Green	Green	Green	Green	Green	Green	Green	Green	Green	244 km	South	163 km	South	B2	B2	B2	C	C	B2	B2	B2	B2	B2	B2		

