

East Anglia TWO Offshore Windfarm

Appendix 11.2

Marine Mammal Cumulative Impact Assessment (CIA) Screening

Preliminary Environmental Information

Volume 3

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Appendix 11.2 is supported by the following annexes:

Annex number	Title
Annex 1	Initial List of UK and Other European Offshore Windfarms Considered Within The CIA Screening
Annex 2	Initial List of UK Wave and Tidal Projects Considered Within the CIA Screening

Glossary of Acronyms

cSAC	candidate Special Area of Conservation
CIA	Cumulative Impact Assessment
EA2	East Anglia TWO project
ES	Environmental Statement
EU	European
EMODnet	European Marine Observation and Data Network
GS	grey seal
HP	harbour porpoise
HS	harbour seal
km	Kilometre
MUs	Management Units
NLOG	Netherlands Oil and Gas
PEIR	Preliminary Environment Information Report
SCI	Site of Community Interest
SNS	Southern North Sea
UK	United Kingdom

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11.2 Marine Mammal Cumulative Impact Assessment (CIA) Screening

11.1 Introduction

1. The Tables in this Appendix summarise the results of the Cumulative Impact Assessment (CIA) screening and outlines the plans and projects which have been screened into the marine mammals CIA. Parameters for inclusion of plans and projects were:
 - a) Projects and plans within the agreed reference population boundary for the given receptor (see **Section 11.5** of **Chapter 11 Marine Mammals**).
 - b) Projects and plans with the potential to cause the type of impact which could have a cumulative impact with the proposed East Anglia TWO project (**Table 11.57** of **Chapter 11 Marine Mammals**).
 - c) Projects and plans from an assessment tier which was screened into the assessment.
2. For this assessment, the tiers used for assessment are based on guidance issued by JNCC and Natural England in September 2013, and are as follows:
 - Tier 1: built and operational projects;
 - Tier 2: projects under construction;
 - Tier 3: projects that have been consented (but construction has not yet commenced);
 - Tier 4: projects that have an application submitted to the appropriate regulatory body that have not yet been determined;
 - Tier 5: projects that the regulatory body are expecting to be submitted for determination (e.g. projects listed under the Planning Inspectorate programme of projects); and
 - Tier 6: projects that have been identified in relevant strategic plans or programmes.
3. These tiers are used as they are more appropriate to use compared to the tiers in The Planning Inspectorate (2015) Advice Note 17 for the types of projects and plans considered in this assessment, in particular for the offshore windfarm stages.
4. The screening results are provided for each type of plan or project including other offshore wind farms, other renewable developments, aggregate extraction

and dredging, licensed disposal sites, navigation and shipping, planned construction of subsea cables and pipelines and oil and gas installations (including surveying).

5. Any plans or projects that have the potential to result in a cumulative impact that commenced construction/commissioning between the end of the baseline and submission of the Environmental Statement (ES) will not be taken forward in the CIA for this type of cumulative impact. It is assumed that construction or commissioning will be completed before the start of construction of the proposed East Anglia TWO project.
6. The first stage of the screening is based on the widest possible range of construction dates for the proposed East Anglia TWO project between 2020 and 2027, based on consent in 2020 and seven year construction window from date of consent. This is then refined to take into account planned construction between 2024 and 2026.

11.1.1 Data Sources

7. A wide range of data sources and information was used for the CIA and CIA screening, including, but not limited to:
 - Project ESs (and Preliminary Environment Information Report (PEIR));
 - Developer websites;
 - 4C Offshore Winds Database (<http://www.4coffshore.com/offshorewind/>);
 - Renewable UK website (<http://www.renewableuk.com>);
 - Crown Estate website;
 - Oil and gas UK licensing rounds website (<https://www.gov.uk/guidance/oil-and-gas-licensing-rounds#past-licensing-rounds>);
 - Cefas website (e.g. <http://data.cefas.co.uk/#/View/407>);
 - Planning Inspectorate National Infrastructure Planning website;
 - European Marine Observation and Data Network (EMODnet) data;
 - Netherlands Oil and Gas (NLOG) website;
 - Danish Energy Agency website;
 - Norwegian Petroleum Directive website; and
 - Dutch Ministry of Infrastructure and the Environment – Rijkswaterstaat website.

11.2 Offshore Windfarms

8. Annex 1 lists all the United Kingdom (UK) and European (EU) offshore wind farm projects considered in the CIA screening categorised in tiers 1-5.

11.2.1 UK Offshore Windfarms

9. UK based projects (**Table A11.2.1**) listed in tiers 1-5 were considered for potential construction, operation and maintenance, and decommissioning cumulative impacts, where those phases could overlap with the proposed construction, operation and maintenance, and decommissioning of the proposed East Anglia TWO project and sufficient information and certainty in project programmes allowed for a meaningful assessment.
10. As a precautionary approach and to allow for potential delays and changes in schedule, the initial stage of the screening determined the potential for overlap with the estimated construction period of the proposed East Anglia TWO project. For all UK consented (tier 3) projects this was based on a seven year window from date of consent in which construction could occur (although most projects have a five year consent window). For UK tier 4 projects (application submitted) the possible construction windows were based on the best available information.
11. As a more realistic approach, the second stage of the screening was to determine which currently consented (tier 3) UK offshore windfarm developments could be piling at the same time as the proposed East Anglia TWO project, based on best available information on when the developments are likely to be constructing and piling. This scenario more accurately reflects the limitations and constraints to project delivery and is used in the CIA (see **Section 11.7 of Chapter 11 Marine Mammals**).
12. The initial screening resulted in a list of 47 UK offshore wind farms with the potential for construction, operation and decommissioning cumulative impacts on harbour porpoise. Of the 47 projects, five have the potential for construction to overlap with the proposed construction of the proposed East Anglia TWO project, based on seven year construction window from date of consent (this includes projects with unknown construction window; all five projects also have a defined construction window which could overlap with construction at the proposed East Anglia TWO project).
13. Operational wind farms were considered part of the baseline if they were operational at the time of site specific surveys (November 2015). Therefore, up to 23 offshore wind farms currently classed as tier 2-5, were screened in for the potential for operation and maintenance to overlap with the construction, operation and maintenance or decommissioning of the proposed East Anglia TWO project.
14. All 47 projects have the potential for decommissioning to overlap with the operation and maintenance or decommissioning of the proposed East Anglia

TWO project, and therefore have the potential for cumulative impacts for harbour porpoise.

15. For grey seal, 34 projects have been screened in, with the potential of construction cumulative impacts for five projects; operation and maintenance cumulative impacts for 16 projects; and decommissioning cumulative impacts for all 34 projects.
16. For harbour seal, 31 projects were screened in, with six projects having the potential of construction cumulative impacts; 15 with potential operations and maintenance cumulative impacts; and all 31 with possible decommissioning cumulative impacts. The results of the initial stage of the screening, based on seven year construction window from date of consent are presented in **Table A11.2.1**

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Table A11.2.1 Results of the initial CIA screening for UK offshore windfarm projects: list of UK Offshore Windfarms (status at time of writing) within the harbour porpoise (HP), harbour seal (HS) and grey seal (GS) Management Units (MUs) and the HP Southern North Sea (SNS) candidate Special Area of Conservation (cSAC/SCI) with potential to overlap with the proposed East Anglia TWO project (EA2) construction, operation or decommissioning phases

Project	Tier	Time of Consent	Distance to EA2 (km)	Phase of Project Considered in CIA		Spatial Area Screened in for				
				Construction	Operation	HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
Blyth demonstration site (2)	1	2013 (Operational by 2018)	387.9	No	Yes	Yes	Yes	No	No	No
Dudgeon	1	2012 (Operational by 2017)	110.3	No	Yes	Yes	Yes	Yes	No	No
European Offshore Wind Deployment Centre EOWDC (Aberdeen Demonstration)	1	2014 (Operational by 2018)	605.0	No	Yes	Yes	No	No	No	No
Galloper	1	2013 (Operational by 2018)	7.3	No	Yes	Yes	Yes	Yes	No	Yes
Greater Gabbard	1	2002 (Operational by 2009)	12.8	No	No	Yes	Yes	Yes	No	Yes
Gunfleet Sands 3 Demo Zone	1	2012 (Operational by 2013)	74.6	No	No	Yes	Yes	Yes	No	No
Gunfleet Sands I Wind Farm	1	2004 (Operational by 2010)	69.8	No	No	Yes	Yes	Yes	No	No
Humber Gateway Wind Farm	1	2011 (Operational by 2015)	190.1	No	Yes	Yes	Yes	Yes	No	No
Hywind Pilot Park	1	2015 (Operational by 2017)	607.1	No	Yes	Yes	No	No	No	No
Inner Dowsing	1	2003 (Operational by 2009)	147.8	No	No	Yes	Yes	Yes	No	No
Kentish Flats	1	2003 (Operational by 2005)	96.1	No	No	Yes	Yes	Yes	No	No
Kentish Flats Extension	1	2013 (Operational by 2015)	96.4	No	Yes	Yes	Yes	Yes	No	No
Levenmouth (Demo)	1	2013	543.4	No	No	Yes	No	No	No	No

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Project	Tier	Time of Consent	Distance to EA2 (km)	Phase of Project Considered in CIA		Spatial Area Screened in for				
				Construction	Operation	HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
		(Operational by 2013)								
Lincs	1	2008 (Operational by 2013)	143.4	No	No	Yes	Yes	Yes	No	No
London Array	1	2006 (Operational by 2013)	58.7	No	No	Yes	Yes	Yes	No	No
Lynn	1	2003 (Operational by 2008)	144.2	No	No	Yes	Yes	Yes	No	No
Race Bank	1	2012 (Operational by 2017)	131.0	No	Yes	Yes	Yes	Yes	No	No
Scroby Sands	1	2002 (Operational by 2004)	41.6	No	No	Yes	Yes	Yes	No	Yes
Sheringham Shoal	1	2008 (Operational by 2012)	106.9	No	No	Yes	Yes	Yes	No	No
Teesside	1	2007 (Operational by 2013)	334.6	No	No	Yes	Yes	No	No	No
Thanet	1	2006 (Operational by 2010)	75.1	No	No	Yes	Yes	Yes	No	Yes
Westermest Rough	1	2011 (Operational by 2014)	209.6	No	Yes	Yes	Yes	Yes	No	No
Beatrice	2	Mar-14	726.5	No	Yes	Yes	No	No	No	No
East Anglia ONE	2	Jun-14	10.4	No	Yes	Yes	Yes	Yes	No	Yes
Hornsea Project One	2	Dec-14	167.2	No	Yes	Yes	Yes	Yes	Yes	No
Kincardine (floating turbines)	2	Mar-17	587.7	No	Yes	Yes	No	No	No	No
Rampion Wind Farm	2	Jul-14	221.6	No	Yes	Yes	No	No	No	No
Blyth demonstration site (3A & 4)	3	Nov-13	386.4	No	Yes	Yes	Yes	No	No	No
Dogger Bank Zone Creyke Beck A	3	Feb-14	260.8	No	Yes	Yes	Yes	Yes	Yes	No
Dogger Bank Zone Creyke Beck B	3	Feb-14	283.4	No	Yes	Yes	Yes	Yes	Yes	No

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Project	Tier	Time of Consent	Distance to EA2 (km)	Phase of Project Considered in CIA		Spatial Area Screened in for				
				Construction	Operation	HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
Dogger Bank Zone Teeside A	3	Aug-15	295.3	No	Yes	Yes	Yes	Yes	Yes	No
Dounreay Tri	3	Mar-17	128.6	No	Yes	Yes	No	No	No	No
East Anglia Three	3	2017	47.4	No	Yes	Yes	Yes	Yes	Yes	Yes
ForthWind Demo Phase 1	3	ON-HOLD	554.8	No	No	Yes	No	No	No	No
Hornsea Project Two	3	Aug-16	172.0	No	Yes	Yes	Yes	Yes	Yes	No
Inch Cape	3	ON-HOLD	534.1	No	No	Yes	No	No	No	No
Moray Firth East	3	2014	713.2	No	Yes	Yes	No	No	No	No
Neart na Gaoithe	3	Oct-14	515.8	No	Yes	Yes	No	No	No	No
Seagreen Phase One – Alpha Bravo	3	Oct-14	524.7	No	Yes	Yes	No	No	No	No
Sofia (previously Dogger Bank Zone Teesside B)	3	Aug-15	280.7	No	Yes	Yes	Yes	Yes	Yes	No
Triton Knoll phase 1-3 43	3	Jul-13	142.8	No	Yes	Yes	Yes	Yes	No	No
Hornsea Project Three	4	Decision Pending	158.1	Yes	Yes	Yes	Yes	Yes	No	No
Moray Firth West	4	ON-HOLD	716.2	No	No	Yes	No	No	No	No
Norfolk Vanguard	4	Decision Pending	56.7	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Thanet Extension	4	Decision Pending	68.9	Yes	Yes	Yes	Yes	Yes	No	Yes
East Anglia ONE North	5	Pre-submission	10.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Norfolk Boreas	5	Pre-submission	72.9	Yes	Yes	Yes	Yes	Yes	Yes	No

11.2.2 European Offshore Windfarms

17. European projects (**Table A11.2.2**) listed in tier 1-3 were considered for the CIA. The screening for the construction of the European offshore wind farm tier 3 projects was based on the seven year window in which construction could occur (e.g. from date of consent for tier 3 projects in 2018 or later). If there was no information or any uncertainty, the projects were initially screened in as a precautionary approach.
18. The screening resulted in a list of 68 European offshore wind farms with the potential for construction, operation and decommissioning cumulative impacts on harbour porpoise. Of the 68 projects, three have the potential for construction to overlap with the proposed construction of the proposed East Anglia TWO project; 41 projects have the potential for operation and maintenance to overlap with the construction, operation and maintenance or decommissioning of the proposed East Anglia TWO project; and all projects have the potential for decommissioning to overlap with the operation and maintenance or decommissioning of the proposed East Anglia TWO project, and therefore have potential of cumulative impacts for harbour porpoise.
19. For grey seal, five projects have been screened in, with the potential of construction cumulative impacts for none of the projects; operation and maintenance cumulative impacts for four projects; and decommissioning cumulative impacts for all five projects.
20. For harbour seal, five projects were screened in, none of which have the potential of construction cumulative impacts; four with potential operations and maintenance cumulative impacts; and all five with possible decommissioning cumulative impacts. The results of the screening are presented in **Table A11.2.2**.

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Table A11.2.2 Results of the initial CIA screening for European offshore windfarm projects: list of EU offshore windfarms (status at time of writing) within the HP, HS and GS MUs and with potential to overlap with the proposed East Anglia TWO project construction, operation or decommissioning phases.

Project	Country	Tier	Time of Consent	Distance to EA2 (km)	Phase of Project Considered in CIA		Spatial Area Screened in for		
					Construction	Operation	HP MU	GS MU	HS MU
Belwind Astom Haliade Demonstration	Belgium	1	Unknown (Operational by 2010)	49.7	No	No	Yes	No	No
Belwind phase 1	Belgium	1	2008 (Operational by 2014)	49.7	No	No	Yes	No	No
Nobelwind	Belgium	1	2008 (Operational by 2017)	49.7	No	Yes	Yes	No	No
Northwind	Belgium	1	2009 (Operational by 2014)	61.6	No	No	Yes	No	No
Thornton Bank phase I	Belgium	1	2004 (Operational by 2009)	68.5	No	No	Yes	No	No
Thornton Bank phase II	Belgium	1	2004 (Operational by 2013)	67.8	No	No	Yes	No	No
Thornton Bank phase III	Belgium	1	2004 (Operational by 2013)	67.8	No	No	Yes	No	No
Horns Rev I	Denmark	1	2001 (Operational by 2002)	512.5	No	No	Yes	No	No
Horns Rev II	Denmark	1	2007 (Operational by 2010)	507.3	No	No	Yes	No	No
Nisum Bredning Vind	Denmark	1	2017 (Operational by 2018)	621.7	No	Yes	Yes	No	No
Rønland	Denmark	1	2009 (Operational by 2014)	621.1	No	No	Yes	No	No
Alpha Ventus	Germany	1	2001 (Operational by 2010)	359.3	No	No	Yes	No	No
Amrumbank West	Germany	1	2004 (Operational by October 2015)	447.6	No	No	Yes	No	No

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Project	Country	Tier	Time of Consent	Distance to EA2 (km)	Phase of Project Considered in CIA		Spatial Area Screened in for		
					Construction	Operation	HP MU	GS MU	HS MU
BARD Offshore 1	Germany	1	2007 (Operational by 2013)	336.8	No	No	Yes	No	No
Borkum Riffgrund 1	Germany	1	2001 (Operational by 2010)	352.1	No	No	Yes	No	No
Butendiek (Offshore- Bürger-windpark)	Germany	1	2002 (Operational by 2015)	476.0	No	No	Yes	No	No
DanTysk	Germany	1	2005 (Operational by 2015)	452.7	No	Yes	Yes	No	No
ENOVA Ems Emden	Germany	1	2003 (Operational by 2004)	356.1	No	No	Yes	No	No
Global Tech I	Germany	1	2006 (Operational by 2015)	369.7	No	Yes	Yes	No	No
Gode Wind 1 and 2	Germany	1	2009 (Operational by 2017)	377.6	No	Yes	Yes	No	No
Meerwind Sued/Ost	Germany	1	2007 (Operational by 2014)	437.5	No	No	Yes	No	No
Nordergruende	Germany	1	2008 (Operational by 2017)	439.2	No	Yes	Yes	Yes	Yes
Nordsee One (Innogy Nordsee I)	Germany	1	2012 (Operational by 2017)	365.1	No	Yes	Yes	No	No
Nordsee Ost	Germany	1	2004 (Operational by 2015)	440.8	No	Yes	Yes	No	No
Riffgat	Germany	1	2010 (Operational by 2014)	331.3	No	No	Yes	Yes	Yes
Sandbank	Germany	1	2004 (Operational by 2017)	442.2	No	Yes	Yes	No	No
Trianel Windpark Borkum Phase 1 (Borkum West II phase 1)	Germany	1	2008 (Operational by 2015)	351.5	No	Yes	Yes	No	No

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Project	Country	Tier	Time of Consent	Distance to EA2 (km)	Phase of Project Considered in CIA		Spatial Area Screened in for		
					Construction	Operation	HP MU	GS MU	HS MU
Veja Mate	Germany	1	2009 (Operational by 2017)	329.3	No	Yes	Yes	No	No
Egmond aan Zee (aka OWEZ)	Netherlands	1	2005 (Operational by 2007)	152.7	No	No	Yes	No	No
Eneco Luchterduinen	Netherlands	1	2012 (Operational by 2015)	121.3	No	Yes	Yes	No	No
Gemini	Netherlands	1	2009 (Operational by 2017)	312.9	No	Yes	Yes	No	No
Irene Vorrink	Netherlands	1	Unknown (Operational by 1996)	229.6	No	No	Yes	No	No
Prinses Amalia Windpark (formerly Q7)	Netherlands	1	2002 (Operational by 2007)	138.1	No	No	Yes	No	No
Westermeerwind	Netherlands	1	2012 (Operational by 2015)	229.3	No	No	Yes	No	No
Hywind - Metcentre	Norway	1	2006 (Operational by 2009)	781.3	No	No	Yes	No	No
SeaTwirl S1	Sweden	1	2015 (Operational by 2015)	878.2	No	No	Yes	No	No
Norther	Belgium	2	Jan-12	71.5	No	Yes	Yes	Yes	Yes
RENTEL	Belgium	2	Feb-13	64.0	No	Yes	Yes	Yes	Yes
Horns Rev III	Denmark	2	Dec-14	520.7	No	Yes	Yes	No	No
Borkum Riffgrund 2	Germany	2	Dec-11	348.0	No	Yes	Yes	No	No
EnBW Hohe See	Germany	2	2010	364.0	No	Yes	Yes	No	No
Merkur Offshore (MEG Offshore I)	Germany	2	2009	355.0	No	Yes	Yes	No	No
OWP Albatros Phase 1	Germany	2	2015	360.8	No	Yes	Yes	No	No

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Project	Country	Tier	Time of Consent	Distance to EA2 (km)	Phase of Project Considered in CIA		Spatial Area Screened in for		
					Construction	Operation	HP MU	GS MU	HS MU
Trianel Windpark Borkum Phase 2 (aka Borkum West II phase 2)	Germany	2	2007	350.2	No	Yes	Yes	No	No
Mermaid	Belgium	3	2015	44.2	No	Yes	Yes	No	No
Northwester 2	Belgium	3	2015	44.2	No	Yes	Yes	Yes	Yes
Seastar	Belgium	3	2014	57.1	No	Yes	Yes	No	No
Vesterhav Nord/Syd	Denmark	3	2016	604.4	No	Yes	Yes	No	No
Eoliennes du Calvados	France	3	2016	333.5	No	Yes	Yes	No	No
Parc éolien en mer de Fécamp	France	3	2016	262.3	No	Yes	Yes	No	No
Borkum Riffgrund West	Germany	3	2004	339.1	No	Yes	Yes	No	No
Borkum Riffgrund West II	Germany	3	2017	332.5	No	No	Yes	No	No
Deutsche Bucht	Germany	3	2010	327.4	No	Yes	Yes	No	No
EnBW He Dreiht	Germany	3	2010	348.3	No	Yes	Yes	No	No
Gode Wind 03	Germany	3	2016	384.7	No	Yes	Yes	No	No
Gode Wind 04	Germany	3	2009	384.7	No	Yes	Yes	No	No
Kaskasi	Germany	3	2018	440.8	Yes	Yes	Yes	No	No
OWP West	Germany	3	Apr-11	335.4	No	Yes	Yes	No	No
Borssele I and II	Netherlands	3	May-16	56.2	No	Yes	Yes	No	No
Borssele III and IV	Netherlands	3	May-16	56.2	No	Yes	Yes	No	No
Borssele Site V - Leeghwater - Innovation Plot	Netherlands	3	May-16	56.6	No	Yes	Yes	No	No
Hollandse Kust Zuid Holland I and II - Chinook	Netherlands	3	2018	115.0	Yes	Yes	Yes	No	No
Windpark Fryslan	Netherlands	3	2018	219.3	Yes	Yes	Yes	No	No

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Project	Country	Tier	Time of Consent	Distance to EA2 (km)	Phase of Project Considered in CIA		Spatial Area Screened in for		
					Construction	Operation	HP MU	GS MU	HS MU
Dr Techn Olav Olsen and Seawind Systems Demo	Norway	3	Unknown	792.3	No	No	Yes	No	No
Kvitsøy Wind Turbine Demonstration Area	Norway	3	2010	779.4	No	Yes	Yes	No	No
Rennesøy Wind Turbine Demonstration Area	Norway	3	2010	780.8	No	Yes	Yes	No	No
TetraSpar Demo - Metcentre	Norway	3	Unknown	785.9	No	No	Yes	No	No

11.3 Other Marine Renewable Developments

21. Other marine renewable projects (e.g. wave and tidal) assessed in the CIA screening were tier 1-5 for UK based projects, and tier 1-3 for other European projects. **Annex 2** Initial List of UK Wave and Tidal Projects Considered Within the CIA Screening lists all the other marine renewable projects considered in the CIA screening.
22. UK based projects listed in tiers 1-4 were screened in for potential cumulative impacts during construction, operation and maintenance and decommissioning, if those phases could overlap with the proposed construction, operation and maintenance, and decommissioning of the proposed East Anglia TWO project and sufficient information was available to determine this. No European projects have been screened in (tier 3 or above). The results of the screening are in **Table A11.2.3**.
23. A total of 19 projects were initially screened into the harbour porpoise CIA, two of which have the potential for construction to overlap with the proposed construction of the proposed East Anglia TWO project and all 19 have the potential for operational cumulative impacts.
24. No marine renewable projects were screened into the CIA for grey seal or harbour seal.
25. Piling is highly unlikely to be used during the installation of the marine renewable projects. The installation of wave/tidal projects is typically using drilled pins or gravity bases. Percussive piling is not anticipated to be used as an installation method and therefore the noise impacts during construction will have a very limited impact range, especially compared to offshore wind farms.
26. The installation of wave or tidal developments is highly unlikely to contribute to the cumulative impacts of the disturbance of harbour porpoise from underwater noise sources.
27. Similarly, the operation and maintenance of wave and tidal projects are also highly unlikely to contribute to the cumulative impacts of the disturbance of harbour porpoise from underwater noise sources and therefore have not been included in the CIA.

28. Wave and tidal arrays can pose a potential collision risk for marine mammals. The likelihood for collision may depend on many variables such as species, underwater visibility, detectability of the devices, the size and type of devices, the location, water depth and the rotation speed of the rotor blades. However, if there is the potential for significant collision risk for marine mammals then the wave or tidal development would be required to implement suitable mitigation to reduce the risk and any potential significant effects at the population level. Therefore, there should be no potential for any significant cumulative impacts and as a result this has not been included in the CIA.

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Table A11.2.3 Results of initial CIA screening for marine renewable projects: list of UK projects (status at time of writing) within the HP, HS and GS MUs and the HP SNS cSAC/SCI with potential to overlap with the proposed East Anglia TWO project construction, operation or decommissioning

Project	Type	Tier	Phase of Plan considered in CIA			Spatial Area Screened in for			SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
			Construction	Operation & Maintenance	Decommissioning	HP MU	GS MU	HS MU		
Billa Croo	Wave	1	No	Yes	Yes	Yes	No	No	No	No
Bluemull Sound	Tidal	1	No	Yes	Yes	Yes	No	No	No	No
Brims Tidal Array Phase 1	Tidal	4	Yes	Yes	Yes	Yes	No	No	No	No
Brims Tidal Array Phase 2	Tidal	4	Yes	Yes	Yes	Yes	No	No	No	No
EMEC Clean Energy from Ocean Waves (CEFOW) Phase 1	Wave	3	No	Yes	Yes	Yes	No	No	No	No
EMEC Laminaria	Wave	3	No	Yes	Yes	Yes	No	No	No	No
EMEC OpenHydro	Tidal	1	No	Yes	Yes	Yes	No	No	No	No
EMEC Scapa Flow (CorPower Ocean)	Wave	1	No	Yes	Yes	Yes	No	No	No	No
EMEC Scotrenewables SR2000	Tidal	1	No	Yes	Yes	Yes	No	No	No	No
EMEC Seatricity	Wave	1	No	Yes	Yes	Yes	No	No	No	No
EMEC Sustainable Marine Energy	Tidal	2	No	Yes	Yes	Yes	No	No	No	No
EMEC Tocardo Phase 2	Tidal	3	No	Yes	Yes	Yes	No	No	No	No
EMEC Wello Oy	Wave	1	No	Yes	Yes	Yes	No	No	No	No
MeyGen Pentland Firth Phase 1a	Tidal	1	No	Yes	Yes	Yes	No	No	No	No
MeyGen Pentland Firth Phase 1B	Tidal	3	No	Yes	Yes	Yes	No	No	No	No
MeyGen Pentland Firth Phase 1C	Tidal	3	No	Yes	Yes	Yes	No	No	No	No

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Project	Type	Tier	Phase of Plan considered in CIA			Spatial Area Screened in for			SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
			Construction	Operation & Maintenance	Decommissioning	HP MU	GS MU	HS MU		
Perpetuus Tidal Energy Centre (PTEC)	Tidal	3	No	Yes	Yes	Yes	No	No	No	Yes
Shetland Tidal Array Phase 1	Tidal	1	No	Yes	Yes	Yes	No	No	No	No
Shetland Tidal Array Phase 2	Tidal	3	No	Yes	Yes	Yes	No	No	No	No

11.4 Aggregate Extraction and Dredging (Operational Impacts Only)

29. Aggregate extraction and dredging projects considered for the CIA screening were tier 1-3 for UK based projects (**Table A11.2. 4**); no European projects were screened in due to a lack of information.
30. No projects were identified in tier 2 or 3, and all of the tier 1 projects identified by screening were already active dredge zones, and are therefore considered part of the baseline. Therefore, the 72 aggregate extractions and dredging projects were screened out from further consideration in the CIA for marine mammals during the proposed construction, operation and maintenance and decommissioning of the proposed East Anglia TWO project.

11.5 Offshore Mining

31. Offshore mining projects considered for the CIA screening were tier 1-3 for UK based projects (**Table A11.2.5**); no European projects were considered due to a lack of information.
32. Two UK mining projects were identified, one under construction and one operational, both projects were within the MU areas for harbour porpoise and grey seal.
33. The operational project is considered part of the current baseline and therefore not considered further in the CIA.
34. The other project is unlikely to contribute significantly to underwater noise and therefore any potential disturbance as any construction will be on land or under the seabed, based on currently available information, and therefore not considered further in the CIA.

Table A11.2. 4 Results of initial CIA screening for aggregate extraction and dredging projects: list of UK projects (active status at time of writing) within the HP, HS and GS MUs and the HP SNS cSAC/SCI with potential to overlap with the proposed East Anglia TWO projects construction, operation or decommissioning phases.

Project	Aggregate Area	Distance to EA2	Tier	Spatial Area Screened in for			SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
				HP MU	GS MU	HS MU		
106 East	480	223.5	1	Yes	Yes	No	No	No
ABP Lowestoft	TH005	31.2	1	Yes	Yes	Yes	No	No
Area 1 South	478	224.56	1	Yes	No	No	No	No
Cleveland Potash Outfall	TY181	320.7	1	Yes	Yes	No	No	No
Cross Sands	242 -361/1-3	26.45	1	Yes	Yes	Yes	Yes	Yes
Cross Sands	296	26.45	1	Yes	Yes	Yes	No	Yes
Cutline	447	44.45	1	Yes	Yes	Yes	No	No
EEC 5 South	482	198.67	1	Yes	Yes	Yes	No	No
EEC North	473, 474 & 475	200.7	1	Yes	Yes	Yes	No	No
EEC South	475	225.63	1	Yes	Yes	Yes	No	No
Goodwin Sands	521	100.68	1	Yes	Yes	Yes	No	No
Great Yarmouth Inner Harbour	HU150	40.73	1	Yes	Yes	Yes	No	No
Greenwich Light East	473	208.5	1	Yes	Yes	Yes	No	No
Greenwich Light East	473/1	208.5	1	Yes	Yes	Yes	No	No
Greenwich Light East	473/2	208.5	1	Yes	Yes	Yes	No	Yes
Humber	514	185.48	1	Yes	Yes	Yes	No	No
Humber 3	484	128.2	1	Yes	Yes	Yes	No	No
Humber 4	490	178.02	1	Yes	Yes	Yes	No	No
Humber 4 and 7	506	158.47	1	Yes	Yes	Yes	No	No
Humber 5	483	145.22	1	Yes	Yes	Yes	Yes	No

Project	Aggregate Area	Distance to EA2	Tier	Spatial Area Screened in for			SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
				HP MU	GS MU	HS MU		
Humber 7	491	158.47	1	Yes	Yes	Yes	Yes	No
Humber Estuary	400 & 106/1-3	156.81	1	Yes	Yes	Yes	No	No
Humber Overfalls	493	164.51	1	Yes	Yes	Yes	Yes	No
Humber Region	514/1-4	178.66	1	Yes	Yes	Yes	No	No
Inner Dowsing	439	142.6	1	Yes	Yes	Yes	No	No
Inner Dowsing	481/1-2	142.6	1	Yes	Yes	Yes	No	No
Inner Owers	396/1-2	232.16	1	Yes	Yes	Yes	No	No
Inner Owers	435/1-2	232.16	1	Yes	Yes	Yes	No	No
Inner Owers North	488	236.85	1	Yes	Yes	Yes	No	No
Longsand	508	44.48	1	Yes	Yes	Yes	No	No
Longsand	509/1-3	44.48	1	Yes	Yes	No	No	No
Longsand	510/1-2	44.48	1	Yes	Yes	No	No	No
Median Deep	461	235.43	1	Yes	Yes	No	No	No
Needles Isle of Wight	137	300.33	1	Yes	Yes	No	No	Yes
New 495	525	22.63	1	Yes	Yes	No	No	Yes
Norfolk	212	34.51	1	Yes	Yes	No	No	Yes
North Cross Sands	494	37.07	1	Yes	No	No	No	No
North Falls East	501	38.19	1	Yes	No	No	No	No
North Inner Gabbard	498	13.15	1	Yes	Yes	Yes	Yes	Yes
North Nab	372/1	268.55	1	Yes	Yes	Yes	No	Yes
Off Great Yarmouth	228	25.72	1	Yes	Yes	Yes	No	Yes

Project	Aggregate Area	Distance to EA2	Tier	Spatial Area Screened in for			SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
				HP MU	GS MU	HS MU		
Off Great Yarmouth	254	25.72	1	Yes	Yes	Yes	No	Yes
Off Great Yarmouth	328/1-3	25.72	1	Yes	Yes	Yes	No	Yes
Off Great Yarmouth Extension	240	28.55	1	Yes	Yes	Yes	No	Yes
Off Saltfleet	197	163.55	1	Yes	No	No	No	No
Off Selsey Bill	395/1-2	261.61	1	Yes	Yes	Yes	No	Yes
Outer Dowsing	515/1-2	137.77	1	Yes	Yes	Yes	No	Yes
Owers Extension	453	235.04	1	Yes	Yes	Yes	No	Yes
Shipwash	507	18.85	1	Yes	Yes	Yes	No	Yes
South East Isle of Wight	340	262.51	1	Yes	Yes	Yes	No	No
South East Isle of Wight	351	262.51	1	Yes	Yes	Yes	No	No
South Hastings	460	180.62	1	Yes	No	No	No	No
South West Isle of Wight	127	311.35	1	Yes	No	No	No	No
South West Isle of Wight	127/1-3	311.35	1	Yes	Yes	Yes	No	No
South Wight	500	312.03	1	Yes	No	No	No	No
Southwold East	430	3.01	1	Yes	Yes	Yes	No	Yes
St Catherine's	407	265.39	1	Yes	No	No	No	No
St Catherine's	451	265.39	1	Yes	No	No	No	No
TBC	242-361 & 328a	24.84	1	Yes	No	No	No	No
TBC	254	32.69	1	Yes	No	No	No	No
TBC	473, 474 & 475	200.86	1	Yes	Yes	Yes	No	No
TBC	500	335.94	1	Yes	Yes	Yes	No	No

Project	Aggregate Area	Distance to EA2	Tier	Spatial Area Screened in for			SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
				HP MU	GS MU	HS MU		
TBC	511	24.35	1	Yes	No	No	No	No
TBC	512	19.78	1	Yes	No	No	No	No
TBC	513/1-2	20.19	1	Yes	No	No	No	No
Thames C	523	21.05	1	Yes	No	No	No	No
Thames D	524	33.8	1	Yes	Yes	Yes	No	Yes
West Bassurelle	458	199.84	1	Yes	Yes	Yes	No	Yes
West Bassurelle	458 & 464	199.84	1	Yes	No	No	No	No
West Bassurelle	464	199.84	1	Yes	No	No	No	No
West Wight	522	289.53	1	Yes	Yes	Yes	No	Yes
Yarmouth	401/2A	13.65	1	Yes	Yes	Yes	No	Yes

Table A11.2.5 Results of CIA screening for offshore mining projects: list of UK projects(status at time of writing) within the HP, HS and GS MUs and the HP SNS cSAC/SCI with potential to overlap with the proposed East Anglia TWO project's construction, operation or decommissioning phase.

Project	Type	Tier	Phase of Project Considered in CIA			Spatial Area Screened in for			SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
			Construction	Operation & Maintenance	Decommissioning	HP MU	GS MU	HS MU		
Hundale Potash Mine	Offshore Minerals Exploration and Option	2	Yes	Yes	Yes	Yes	Yes	No	No	No
Boulby Potash Mine	Offshore Minerals Lease	1	No	Yes	Yes	Yes	Yes	No	No	No

11.6 Oil and Gas Installations and Activities

35. Oil and gas exploration and installations could have the potential for cumulative impacts during the construction, operation and maintenance, and decommissioning of the proposed East Anglia TWO project. Plans or projects considered during the CIA screening were tier 1-3 for UK based projects; no European projects are assessed in due to a lack of information.
36. All tier 1 projects considered in CIA screening were actively producing at the end of the baseline, and are therefore not considered for construction, operational and maintenance cumulative impacts. There is a large amount of uncertainty around decommissioning, and although there are a number of fields where production has ceased, no assumptions have been made about any decommissioning activities. Therefore, this phase of oil and gas projects has been screened out of the CIA.
37. Oil and gas activities considered in the CIA screening are tier 2 and 3 projects based on the 28th supplementary, 29th and 30th Round of Offers (see <https://www.gov.uk/oil-and-gas-licensing-rounds#past-licensing-rounds> for more detail). Confirming which of the Licence block or part blocks from these rounds are in which period of the Licence or whether exploration or extraction may be occurring is outwith the scope of this CIA. There is the potential that each of these plans or projects could be either in commissioning or exploration or operational phase during the lifespan of the proposed East Anglia TWO project.
38. A number of Licence blocks west of Shetland were also identified during screening, some of these blocks are on the boundary of the harbour porpoise North Sea MU and have been screened out of the assessment due to the large spatial separation between the East Anglia TWO offshore development area and the location of these blocks.
39. **Table A11.2. 6** lists the Licence blocks or part blocks (plans or projects) which have been identified in the CIA screening. A total of 199 Licence blocks or part blocks in the MU for harbour porpoise, 14 in the MU for grey seal and eight in the MU for harbour seal. However, there is currently no information on if or when these blocks will or could be developed. Therefore, it is not currently possible to include them in the CIA, other than the potential seismic surveys that could be undertaken.
40. Operational activity of oil and gas projects in currently developed blocks are considered part of the baseline and are therefore not included in the CIA.

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Table A11.2. 6 Results of initial CIA screening for oil and gas exploration and installations projects: list of UK projects (status at time of writing) within the HP, HS and GS MUs and the HP SNS cSAC/SCI with potential to overlap with the proposed East Anglia TWO project construction, operation or decommissioning phases.

Block	Distance to EA2 (km)	Round	Spatial Area Screened in for			SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
HP MU	GS MU	HS MU					
10/1b	836.68	28	Yes	No	No	No	No
10/6a	832.97	30	Yes	No	No	No	No
12/28 (Part)	705.23	28	Yes	No	No	No	No
13/18c	706.13	30	Yes	No	No	No	No
13/19c	702.22	30	Yes	No	No	No	No
13/20a	698.51	30	Yes	No	No	No	No
13/20f	698.51	30	Yes	No	No	No	No
13/21c	697.41	30	Yes	No	No	No	No
13/23c	689.41	30	Yes	No	No	No	No
13/30c	663.28	30	Yes	No	No	No	No
13/27	675.74	30	Yes	No	No	No	No
14/26d	661.93	30	Yes	No	No	No	No
14/28	652.80	30	Yes	No	No	No	No
14/29a	658.75	30	Yes	No	No	No	No
14/29b	649.75	30	Yes	No	No	No	No
14/30b	657.34	30	Yes	No	No	No	No
15/17c	689.59	30	Yes	No	No	No	No
15/18a	686.74	30	Yes	No	No	No	No
15/18c	690.92	30	Yes	No	No	No	No
15/18d	685.84	30	Yes	No	No	No	No
15/19a	680.46	30	Yes	No	No	No	No
15/19b	683.25	30	Yes	No	No	No	No
15/20d	680.86	30	Yes	No	No	No	No
15/28a	640.00	30	Yes	No	No	No	No
15/29c	638.20	30	Yes	No	No	No	No
15/29d	651.06	30	Yes	No	No	No	No
15/29e	638.18	30	Yes	No	No	No	No
15/30c	636.62	30	Yes	No	No	No	No

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Block	Distance to EA2 (km)	Round	Spatial Area Screened in for			SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
HP MU	GS MU	HS MU					
15/9 (Part), 15/10, 15/14, 15/15, 16/6b & 16/11a	691.90	29	Yes	No	No	No	No
16/1c & 16/2a	657.63	29	Yes	No	No	No	No
16/11b	690.72	30	Yes	No	No	No	No
16/16	672.24	30	Yes	No	No	No	No
16/18c	670.80	28	Yes	No	No	No	No
16/28d	633.40	30	Yes	No	No	No	No
16/29e	632.91	30	Yes	No	No	No	No
16/3d	730.33	30	Yes	No	No	No	No
16/3e	726.11	30	Yes	No	No	No	No
205/12	976.67	30	Yes	No	No	No	No
205/14a	968.07	30	Yes	No	No	No	No
205/19	950.93	30	Yes	No	No	No	No
205/25	929.54	30	Yes	No	No	No	No
205/5c	998.70	30	Yes	No	No	No	No
206/10a	978.32	30	Yes	No	No	No	No
206/11d	961.71	30	Yes	No	No	No	No
206/16a	957.50	30	Yes	No	No	No	No
206/1c	1,010.75	30	Yes	No	No	No	No
206/5a	981.21	30	Yes	No	No	No	No
206/5b	988.32	30	Yes	No	No	No	No
206/5c	986.35	30	Yes	No	No	No	No
207/1c	978.17	30	Yes	No	No	No	No
207/2	975.24	30	Yes	No	No	No	No
207/3	972.45	30	Yes	No	No	No	No
208/11	1,049.78	30	Yes	No	No	No	No
208/14	1,042.15	30	Yes	No	No	No	No
208/18a	1,026.51	30	Yes	No	No	No	No
208/18c	1037.30	30	Yes	No	No	No	No
208/19a	1024.04	30	Yes	No	No	No	No
208/19b	1034.87	30	Yes	No	No	No	No
208/1a	1086.60	30	Yes	No	No	No	No

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Block	Distance to EA2 (km)	Round	Spatial Area Screened in for			SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
HP MU	GS MU	HS MU					
208/1c	1085.68	30	Yes	No	No	No	No
208/20	1021.72	30	Yes	No	No	No	No
208/21a	1013.92	30	Yes	No	No	No	No
208/22a	1011.09	30	Yes	No	No	No	No
208/23	1008.47	30	Yes	No	No	No	No
208/24a	1013.15	30	Yes	No	No	No	No
208/24b	1005.91	30	Yes	No	No	No	No
208/25	1003.57	30	Yes	No	No	No	No
208/26	996.03	30	Yes	No	No	No	No
208/27a	997.19	30	Yes	No	No	No	No
208/27b	993.14	30	Yes	No	No	No	No
208/28	990.45	30	Yes	No	No	No	No
208/29	987.87	30	Yes	No	No	No	No
208/30	985.44	30	Yes	No	No	No	No
208/6	1067.74	30	Yes	No	No	No	No
21/10c	599.79	30	Yes	No	No	No	No
21/14a	590.48	30	Yes	No	No	No	No
21/15	581.40	30	Yes	No	No	No	No
21/1b	627.55	30	Yes	No	No	No	No
21/28b	545.05	30	Yes	No	No	No	No
21/2d	628.42	30	Yes	No	No	No	No
21/3c	621.72	30	Yes	No	No	No	No
21/3d	632.70	30	Yes	No	No	No	No
21/4b	619.84	30	Yes	No	No	No	No
21/4c	621.04	30	Yes	No	No	No	No
21/5b	618.20	30	Yes	No	No	No	No
21/5d	632.11	30	Yes	No	No	No	No
21/6a	608.13	30	Yes	No	No	No	No
21/9c	601.48	30	Yes	No	No	No	No
210/22d	998.85	30	Yes	No	No	No	No
210/23c	997.06	30	Yes	No	No	No	No
210/27f	1,015.19	30	Yes	No	No	No	No
211/28a	967.61	30	Yes	No	No	No	No

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Block	Distance to EA2 (km)	Round	Spatial Area Screened in for			SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
HP MU	GS MU	HS MU					
211/28c	967.28	30	Yes	No	No	No	No
211/29f	966.90	30	Yes	No	No	No	No
211/30c	980.47	28	Yes	No	No	No	No
213/30a	1,016.06	30	Yes	No	No	No	No
214/10b	1,070.48	30	Yes	No	No	No	No
214/14a	1,062.61	30	Yes	No	No	No	No
214/15a	1,052.54	30	Yes	No	No	No	No
214/22a	1,026.43	30	Yes	No	No	No	No
214/23	1,023.13	30	Yes	No	No	No	No
214/24	1,019.93	30	Yes	No	No	No	No
214/25	1,016.86	30	Yes	No	No	No	No
214/26a	1,012.38	30	Yes	No	No	No	No
214/27b	1,008.87	30	Yes	No	No	No	No
214/28a	1,005.45	30	Yes	No	No	No	No
214/29a	1,002.18	30	Yes	No	No	No	No
214/30b	999.00	30	Yes	No	No	No	No
214/30d	1,001.08	30	Yes	No	No	No	No
214/4b	1,091.21	30	Yes	No	No	No	No
214/5b	1,088.40	30	Yes	No	No	No	No
214/5c	1,088.36	30	Yes	No	No	No	No
214/9b	1,073.35	30	Yes	No	No	No	No
216/30a	1,106.30	30	Yes	No	No	No	No
217/26a	1,103.68	30	Yes	No	No	No	No
22/03	614.87	30	Yes	No	No	No	No
22/10b	595.40	30	Yes	No	No	No	No
22/11b	579.92	30	Yes	No	No	No	No
22/12b	578.71	30	Yes	No	No	No	No
22/12d	578.73	30	Yes	No	No	No	No
22/12e	593.52	30	Yes	No	No	No	No
22/13c	577.79	30	Yes	No	No	No	No
22/13d	577.81	30	Yes	No	No	No	No
22/14c	577.18	30	Yes	No	No	No	No
22/15d	582.40	30	Yes	No	No	No	No

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Block	Distance to EA2 (km)	Round	Spatial Area Screened in for			SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
HP MU	GS MU	HS MU					
22/16b	572.52	30	Yes	No	No	No	No
22/17c	575.60	30	Yes	No	No	No	No
22/18d	574.61	30	Yes	No	No	No	No
22/19f	573.47	30	Yes	No	No	No	No
22/1b	616.83	30	Yes	No	No	No	No
22/24f	540.40	30	Yes	No	No	No	No
22/24g	553.05	30	Yes	No	No	No	No
22/24h	544.08	30	Yes	No	No	No	No
22/25f	552.94	30	Yes	No	No	No	No
22/25g	539.99	30	Yes	No	No	No	No
22/29d	521.70	30	Yes	No	No	No	No
22/30d	524.87	30	Yes	No	No	No	No
22/4b	614.28	30	Yes	No	No	No	No
22/6b	601.01	30	Yes	No	No	No	No
22/7b	606.47	30	Yes	No	No	No	No
22/8a	596.32	30	Yes	No	No	No	No
22/8b	607.43	30	Yes	No	No	No	No
22/9b	596.05	30	Yes	No	No	No	No
23/06	595.34	30	Yes	No	No	No	No
23/11b	576.76	30	Yes	No	No	No	No
23/11c	576.74	30	Yes	No	No	No	No
23/16e	573.05	30	Yes	No	No	No	No
23/21b	539.65	30	Yes	No	No	No	No
23/22b	539.83	30	Yes	No	No	No	No
23/26e	521.09	30	Yes	No	No	No	No
27/3, 27/4, 27/5, 27/9, 27/10, 28/1 & 28/6	500.03	29	Yes	Yes	No	No	No
28/05	507.92	30	Yes	No	No	No	No
28/10a	501.57	30	Yes	No	No	No	No
28/10b	501.57	30	Yes	No	No	No	No
28/20	452.99	30	Yes	No	No	No	No
28/8b	494.17	30	Yes	No	No	No	No
28/9b	494.15	30	Yes	No	No	No	No

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Block	Distance to EA2 (km)	Round	Spatial Area Screened in for			SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
			HP MU	GS MU	HS MU		
28/9c	491.72	30	Yes	No	No	No	No
28/9d	504.43	30	Yes	No	No	No	No
29/06	487.80	30	Yes	No	No	No	No
29/16	451.04	30	Yes	No	No	No	No
29/17	449.45	30	Yes	No	No	No	No
29/18	448.24	30	Yes	No	No	No	No
29/19a	448.22	30	Yes	No	No	No	No
29/1e	506.21	30	Yes	No	No	No	No
29/5e	502.60	30	Yes	No	No	No	No
29/7b	494.65	30	Yes	No	No	No	No
29/22b, 29/23b, 29/27, 29/28	411.25	29	Yes	Yes	No	No	No
3/16 (Part) & 3/17 (Part)	893.56	29	Yes	No	No	No	No
3/4g	948.34	30	Yes	No	No	No	No
3/5a	948.30	30	Yes	No	No	No	No
3/8g	930.16	30	Yes	No	No	No	No
30/08	484.29	30	Yes	No	No	No	No
30/12c	465.60	30	Yes	No	No	No	No
30/13c	465.73	30	Yes	No	No	No	No
30/13e	465.72	30	Yes	No	No	No	No
30/14b	466.43	30	Yes	No	No	No	No
30/17h	460.14	30	Yes	No	No	No	No
30/18c	460.32	30	Yes	No	No	No	No
30/19c	447.78	30	Yes	No	No	No	No
30/1a	506.23	30	Yes	No	No	No	No
30/1d	511.79	30	Yes	No	No	No	No
30/1e	517.36	30	Yes	No	No	No	No
30/2e	506.24	30	Yes	No	No	No	No
30/2f	502.72	30	Yes	No	No	No	No
30/3d	502.84	30	Yes	No	No	No	No
30/7d	491.65	30	Yes	No	No	No	No

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Block	Distance to EA2 (km)	Round	Spatial Area Screened in for			SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
			HP MU	GS MU	HS MU		
35/24, 35/28, 35/29, 35/30, 36/21, 36/26, 36/27, 36/28, 36/29 & 42/2a	307.86	29	Yes	Yes	No	No	No
36/15 (Part), 36/20, 37/11 (Part) & 37/16	341.20	29	Yes	Yes	No	No	No
36/24, 36/25, 37/21, 37/22 (Split), 37/23 (Split), 37/28b & 37/29b	301.10	29	Yes	Yes	No	No	No
37/17, 37/18, 37/19, 37/22 (Split), 37/23 (Split) & 37/24	317.74	29	Yes	Yes	Yes	No	No
38/27, 38/28, 44/2 & 44/3 (Part)	298.40	29	Yes	Yes	Yes	No	No
41/3, 41/4 & 41/9	304.07	29	Yes	Yes	No	No	No
42/13b	263.56	30	Yes	Yes	Yes	Yes	No
42/14	258.67	30	Yes	Yes	Yes	Yes	No
42/15b	254.38	30	Yes	Yes	Yes	Yes	No
42/17	252.51	30	Yes	Yes	Yes	No	No
42/18	246.66	30	Yes	Yes	Yes	Yes	No
42/20a	236.79	30	Yes	Yes	Yes	Yes	No

11.7 Navigation and Shipping (Operational Impacts Only)

41. Navigational and shipping projects considered in the CIA screening were tier 1-3 for UK based projects. All European projects were screened out. Projects were considered for potential operational impacts if the plan or project had not started by the end of the proposed East Anglia TWO project baseline.
42. No projects were identified in tier 2 or 3, and all of the tier 1 projects identified by screening were already active, and are therefore considered part of the baseline.
43. Therefore, all navigation and shipping operations have been screened out of the CIA.

11.8 Subsea Cables and Pipelines (Commissioning and Construction Impacts Only)

44. Subsea cables and pipelines only have the potential for cumulative impacts with the proposed East Anglia TWO project during their construction. Plans or projects considered for the CIA screening were tier 1- 5 projects, where relevant.
45. All of the tier 1 projects identified during screening were already installed, and are therefore considered part of the baseline.
46. For harbour porpoise, 16 tier 2 projects were identified, and in addition, two tier 3 projects, five tier 4 and 18 tier 5 projects were also included in the CIA. For grey seal, 12 tier 2 projects and an additional two tier 3, two tier 4 and 14 tier 5 projects were included in the CIA. For harbour seal, 12 tier 2 projects and an additional one tier 3, two tier 4 and 11 tier 5 projects were included in the CIA.
47. The underwater noise that could be generated during the seabed preparation, ploughing / jetting / pre-trenching or cutting for installation of cables / pipelines, rock dumping for protection of the cable / pipelines, and installation vessels, would be restricted to the area of installation and temporary (as indicated in **section 11.6.1.5 of Chapter 11 Marine Mammals**).
48. Therefore, taking into account the distances from East Anglia TWO, the potential for any cumulative impacts is negligible and has not been included in the CIA.

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Table A11.2.7 Results of CIA screening for subsea cables and pipelines: list of projects (status at time of writing) within the HP, HS and GS MUs and the HP SNS cSAC/SCI with potential to overlap with the East Anglia TWO construction, operation or decommissioning phases.

Project	Landfall Locations	Distance EA2 (km)	to	Type Cable or Pipeline	Tier	Spatial Area Screened in for				
						HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
PL2236 - MIMAS TO SATURN	Blocks 48/09 & 49/11b (Norfolk Banks)	113.6		10 inch GAS pipeline	2	Yes	Yes	Yes	Yes	No
PL2237 - SATURN TO MIMAS	Blocks 48/09 & 49/11b (Norfolk Banks)	133.6		3 inch CHEMICAL pipeline	2	Yes	Yes	Yes	Yes	No
PLU3122 - JULIET TO PICKERILL A UMBILICAL	Block 48/11 (Norfolk Banks)	149.3		138 mm MIXED HYDROCARBONS pipeline	2	Yes	Yes	Yes	Yes	No
PL3088 - CYGNUS TO ETS GAS PIPELINE	Block 44/11a & 44/12a (South Dogger Bank)	248.2		24 inch GAS pipeline	2	Yes	Yes	Yes	Yes	No
PL3086 - CYGNUS A TO CYGNUS B GAS PIPELINE	Block 44/11a & 44/12a (South Dogger Bank)	248.2		12 inch GAS pipeline	2	Yes	Yes	Yes	Yes	No
PL2894 - KATY TO KELVIN GAS EXPORT PIPELINE	Block 44/19b (South Dogger Bank)	229.9		10 inch GAS pipeline	2	Yes	Yes	Yes	Yes	No
PL2895 - KELVIN TO KATY METHANOL PIPELINE	Block 44/19b (South Dogger Bank)	233.0		2 inch METHANOL pipeline	2	Yes	Yes	Yes	Yes	No
PL3121 - JULIET TO PICKERILL A GAS PIPELINE	Block 48/11 (Norfolk Banks)	148.3		12 inch MIXED HYDROCARBONS pipeline	2	Yes	Yes	Yes	No	No
PL0219_PR K4-Z to K5-A	PR K4-Z to K5-A (Cleaver Bank)	161.6		6-inch Gas pipeline	2	Yes	No	No	No	No
PL0219_UM K4-Z to K5-A	PR K4-Z to K5-A (Cleaver Bank)	161.6		5-inch Control pipeline	2	Yes	No	No	No	No

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Project	Landfall Locations	Distance EA2 (km)	to	Type Cable or Pipeline	Tier	Spatial Area Screened in for				
						HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
Caithness Moray	Noss Head - Tannachy	711.1		HVDC 1,200 MW	2	Yes	No	No	No	No
COBRACable	Eemshaven, Netherlands - Endrup, 6740, Denmark	304.0		HVDC 700MW	2	Yes	Yes	Yes	No	No
Nemo Link	Pegwell Bay - Zeebrugge	86.4		HVDC 1,000MW	2	Yes	Yes	Yes	No	Yes
Nordlink	Büsum, Germany - Ertsmyra, Norway	484.7		HVDC 1,400MW	2	Yes	Yes	Yes	No	No
ElecLink	Folkestone - Les Mandarins, France	131.2		HVDC 1,000MW	2	Yes	Yes	Yes	No	No
Oresund replacement	Kristinelundveien - Denmark	1,032.8		HVAC 132kV	2	Yes	No	No	No	No
North Sea Link	Hylsfjorden, Norway - Blyth, UK	364.2		HVDC 1,400MW	3	Yes	Yes	No	No	No
Interconnexion France- Angleterre 2	Merville, France - Monks Hill Beach, UK	324.6		HVDC 1,000MW	3	Yes	Yes	Yes	No	No
VikingLink Corridor	Lincolnshire Coast, UK to Southern Jutland, Denmark	157.1		Proposed High voltage (up to 500 kV) Direct Current (DC) electricity interconnector	4	Yes	Yes	Yes	Yes	No
PLU3087 - CYGNUS A TO CYGNUS B UMBILICAL	Block 44/11a & 44/12a (South Dogger Bank)	653.4		193.3 mm CHEMICAL pipeline	4	Yes	Yes	Yes	Yes	No
PL0221_HS D18-A to D15-FA-1	HS D18-A to D15- FA-1 (South Dogger / Cleaver Bank)	216.5		2-inch Methanol pipeline	4	Yes	No	No	No	No

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Project	Landfall Locations	Distance EA2 (km)	to	Type Cable or Pipeline	Tier	Spatial Area Screened in for				SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
						HP MU	GS MU	HS MU			
PL0221 PR D18-A to D15-FA-1	PR D18-A to D15-FA-1 (South Dogger / Cleaver Bank)	216.5		8-inch Gas pipeline	4	Yes	No	No		No	No
AQUIND Interconnector	Portsmouth, UK - Le Havre, France	209.6		HVDC 2,000MW	4	Yes	No	No		No	No
Goldeneye to St. Fergus	Peterhead - Peterhead CCS (Shell and SSE)	653.4		CSS pipeline	5	Yes	Yes	No		No	No
Elgood (subsea) to Blythe (NUI)	Elgood (subsea) - Blythe (NUI)	117.6		10 inch proposed GAS pipeline operated by Independent Oil and Gas Ltd	5	Yes	Yes	Yes		Unknown	Unknown
Blythe (NUI) to PL370	Blythe (NUI) - PL370	117.6		10 inch proposed GAS pipeline operated by Independent Oil and Gas Ltd	5	Yes	Yes	Yes		Unknown	Unknown
Vulcan NW (NUI) to Vulcan S (NUI)		103.6		10 inch proposed GAS pipeline operated by Independent Oil and Gas Ltd	5	Yes	Yes	Yes		Unknown	Unknown
Vulcan E (subsea) to Vulcan S (NUI)		98.9		10 inch proposed GAS pipeline operated by Independent Oil and Gas Ltd	5	Yes	Yes	Yes		Unknown	Unknown
Vulcan S (NUI) to PL370 1	PL370 1	103.6		10 inch proposed GAS pipeline operated by	5	Yes	Yes	Yes		Unknown	Unknown

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Project	Landfall Locations	Distance EA2 (km)	to	Type Cable or Pipeline	Tier	Spatial Area Screened in for			
						HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)
				Independent Oil and Gas Ltd					SNS cSAC/SCI (Winter)
Vulcan S (NUI) to PL370 2	PL370 2	103.6		10 inch proposed GAS pipeline operated by Independent Oil and Gas Ltd	5	Yes	Yes	Yes	Unknown
Shetland HVDC Link	Noss Head - Weisdale Voe	772.5		HVDC 600MW	5	Yes	No	No	No
Channel Cable	Paluel, France - Ninfield UK	171.5		HVDC 1,400MW	5	Yes	Yes	Yes	No
Eastern HVDC Link	Peterhead - Hawthorn	346.4		HVDC 2,000MW	5	Yes	Yes	No	No
NorthConnect	Peterhead, UK - Simadalen, Norway	625.3		HVDC 1,400MW	5	Yes	Yes	No	No
NorGer	Flekkefjord, Norway - Mooriem, Germany	400.6		HVDC 1,400MW	5	Yes	Yes	Yes	No
Maali	Kergord, Shetland, UK - Bergen- Mongstad, Norway	902.7		HVDC 600MW	5	Yes	No	No	No
COBRA 2	Denmark - Germany	304.0		HVDC 700MW	5	Yes	Yes	Yes	No
Orkney Caithness	Billa Croo, Orkney, UK - Dounreay	813.3		HVAC 220MW	5	Yes	No	No	No
NeuConnect	Greystones, UK - Conneforde, Germany	Unknown		HVDC 1,400MW	5	Yes	Yes	Yes	No
Nautilus (Nemo 2)	Leiston, UK - Belgium	86.4		HVDC 1,400MW	5	Yes	No	No	No
UK-Netherands 2	UK - Netherlands			HVDC 2,000MW	5	Yes	Yes	Yes	Unknown

11.9 Carbon Capture Projects

49. Carbon capture projects considered in the CIA screening were tier 1-3 for UK based projects. All European projects were screened out.
50. No projects were identified in tier 2 or 3, and all of the tier 1 projects identified by screening were already active, and are therefore considered part of the baseline. Tier 4 and 5 projects were screened out, including the Endurance and Goldeneye projects as both are tier 5. Therefore, all carbon capture projects have been screened out of the CIA.

11.10 Summary of Projects Screened in for Assessment

51. **Table A11.2.8** summaries the results of the CIA screening process.

Table A11.2.8 Number of plans or project from each category which have been screened into the CIA for each receptor and the stage of the plan or project where a cumulative impact may occur (C = commissioning / construction O = operation, D = decommissioning, N/A = not assessed as there is no pathway)

Project Category	Screened in for harbour porpoise			Screened in for grey seal			Screened in for harbour seal		
	C	O	D	C	O	D	C	O	D
UK Offshore Windfarms	9	18	47	6	12	34	6	11	32
European Offshore Windfarms	0	32	60	0	29	51	0	29	51

11.11 Annex 1 Initial List of UK and Other European Offshore Windfarms Considered Within the CIA Screening

Project	Country	Tier	Status	In the MU / reference population are for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
Aberdeen (EOWDC)	UK	1	Operational	Yes	No	No
Aiolos	Germany	6	Cancelled	Yes	No	No
Alpha Ventus	Germany	1	Operational	Yes	No	No
Amrumbank West	Germany	1	Operational	Yes	No	No
AreaC I	Germany	6	Cancelled	Yes	No	No
AreaC II	Germany	6	Cancelled	Yes	No	No
AreaC III	Germany	6	Cancelled	Yes	No	No
Atlantis I	Germany	6	Cancelled	Yes	No	No
Atlantis II	Germany	6	Cancelled	Yes	No	No
Atlantis III	Germany	6	Cancelled	Yes	No	No
Austerngrund	Germany	6	Cancelled	Yes	Yes	Yes
BARD Offshore 1	Germany	1	Operational	Yes	No	No
Beatrice	UK	2	Partial operational / under construction	Yes	No	No
Beatrice - demonstrator project	UK	0	Decommissioned	Yes	No	No
Belwind 1	Belgium	1	Operational	Yes	No	No
Belwind Alstom Haliade Demonstration	Belgium	1	Operational	Yes	No	No
Bight Power I	Germany	6	Cancelled	Yes	No	No
Bight Power II	Germany	6	Cancelled	Yes	No	No
Blyth	UK	0	Decommissioned	Yes	Yes	No
Blyth demonstration site (1)	UK	0	Decommissioned	Yes	Yes	Yes
Blyth demonstration site (2)	UK	1	Operational	Yes	Yes	Yes
Blyth demonstration site (3A & 4)	UK	3	Consented	Yes	Yes	No
Borkum Riffgrund I	Germany	1	Operational	Yes	No	No
Borkum Riffgrund II	Germany	2	Construction / partial operational	Yes	No	No
Borkum Riffgrund West I	Germany	3	Consented	Yes	No	No
Borkum Riffgrund West II	Germany	3	Consented	Yes	No	No
Borssele I and II	Netherlands	3	Pre-construction	Yes	No	No
Borssele III and IV	Netherlands	3	Consented	Yes	No	No
Borssele Site V - Leeghwater - Innovation Plot	Netherlands	3	Consented	Yes	No	No
Breeveertien II	Netherlands	6	Cancelled	Yes	No	No
Brown Ridge Oost	Netherlands	6	Cancelled	Yes	No	No

Project	Country	Tier	Status	In the MU / reference population are for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
Butendiek (Offshore-Bürger- windpark)	Germany	1	Operational	Yes	No	No
Callantsoog Noord	Netherlands	6	Failed to gain consent	Yes	No	No
Clearcamp	Netherlands	6	Dormant	Yes	No	No
Concordia I	Germany	6	Cancelled	Yes	No	No
Concordia II	Germany	6	Cancelled	Yes	No	No
Dan Tysk	Germany	1	Operational	Yes	No	No
Delta Nordsee 1	Germany	6	Cancelled	Yes	No	No
Delta Nordsee 2 (OWP Delta Nordsee 2)	Germany	6	Cancelled	Yes	No	No
Den Haag I	Netherlands	6	Failed to gain consent	Yes	No	No
Den Haag II	Netherlands	6	Failed to gain consent	Yes	No	No
Den Helder I	Netherlands	6	Cancelled	Yes	No	No
Deutsche Bucht	Germany	2	Construction	Yes	No	No
Deutsche Bucht Pilot Park	Germany	3	Pre-construction	Yes	No	No
Diamant	Germany	6	Cancelled	Yes	No	No
Dogger Bank Zone Creyke Beck A	UK	3	Consented	Yes	Yes	Yes
Dogger Bank Zone Creyke Beck B	UK	3	Consented	Yes	Yes	Yes
Dogger Bank Zone Teesside A	UK	3	Consented	Yes	Yes	Yes
Dogger Bank Zone Teesside C	UK	6	Cancelled	Yes	Yes	Yes
Dogger Bank Zone Teesside D	UK	6	Cancelled	Yes	Yes	Yes
Dounreay Ti	UK	3	Consented	Yes	No	No
Dr Techn Olav Olsen and Seawind Systems Demo	Norway	3	Consented - now on hold	Yes	No	No
Dudgeon	UK	1	Operational	Yes	Yes	Yes
Dudgeon Extension	UK	5	Concept & Early Planning	Yes	Yes	Yes
East Anglia ONE	UK	2	Construction	Yes	Yes	Yes
East Anglia ONE North	UK	5	Application in preparation	Yes	Yes	Yes
East Anglia THREE	UK	3	Consented	Yes	Yes	Yes
East Anglia TWO	UK	5	Application in preparation	Yes	Yes	Yes
Egmond aan Zee (aka OWEZ)	Netherlands	1	Operational	Yes	No	No
EnBW He Dreiht	Germany	3	Consented	Yes	No	No
Eneco Luchterduinen	Netherlands	1	Operational	Yes	No	No

Project	Country	Tier	Status	In the MU / reference population are for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
ENOVA Ems Emden	Germany	1	Operational	Yes	No	No
ENOVA NSWP 10	Germany	6	Cancelled	Yes	No	No
ENOVA NSWP 11	Germany	6	Cancelled	Yes	No	No
ENOVA NSWP 12	Germany	6	Cancelled	Yes	No	No
ENOVA NSWP 13	Germany	6	Cancelled	Yes	No	No
ENOVA NSWP 14	Germany	6	Cancelled	Yes	No	No
ENOVA NSWP 15	Germany	6	Cancelled	Yes	No	No
ENOVA NSWP 8	Germany	6	Cancelled	Yes	No	No
ENOVA NSWP 9	Germany	6	Cancelled	Yes	No	No
Eoliennes du Calvados	France	3	Consented	Yes	No	No
Euklas	Germany	6	Cancelled	Yes	No	No
Floating Power Plant - Katanes array	UK	5	Concept & Early Planning	Yes	No	No
Floating Power Plant - Katanes commercial	UK	5	Concept & Early Planning	Yes	No	No
Floating Power Plant - Katanes pilot	UK	5	Concept & Early Planning	Yes	No	No
ForthWind Demo Phase 1	UK	3	Consented	Yes	No	No
ForthWind Demo Phase 2	UK	5	Concept & Early Planning	Yes	No	No
Frøysagrunnene (Category A area)	Norway	6	Development Zone	Yes	No	No
Future Commercial Floating Tenders	France	6	Development Zone	Yes	No	No
Future Fixed-Bottom Tenders	France	6	Development Zone	Yes	No	No
GAIA I	Germany	6	Cancelled	Yes	No	No
GAIA II	Germany	6	Cancelled	Yes	No	No
GAIA III	Germany	6	Cancelled	Yes	No	No
GAIA IV	Germany	6	Cancelled	Yes	No	No
GAIA V	Germany	6	Cancelled	Yes	No	No
Galloper	UK	1	Operational	Yes	Yes	Yes
Galloper Extension	UK	5	Concept & Early Planning	Yes	Yes	Yes
Gannet	Germany	6	Cancelled	Yes	No	No
Gemini ZeeEnergie	Netherlands	1	Operational	No	No	No
GICON SOF (test turbine)	Germany	5	Concept & Early Planning	Yes	No	No
Global Tech I	Germany	1	Operational	Yes	No	No
Global Tech II	Germany	6	Cancelled	Yes	No	No
Gode Wind 03	Germany	3	Consented	Yes	No	No
Gode Wind 04	Germany	3	Consented	Yes	No	No
Gode Wind 1 and 2	Germany	1	Operational	Yes	No	No
Greater Gabbard	UK	1	Operational	Yes	Yes	Yes
Greater Gabbard Extension	UK	5	Concept & Early Planning	Yes	Yes	Yes

Project	Country	Tier	Status	In the MU / reference population are for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
Gunfleet Sands 3 (Demo Zone)	UK	1	Operational	Yes	Yes	Yes
Gunfleet Sands I	UK	1	Operational	Yes	Yes	Yes
Gwind - Spinwind 1	Norway	0	Decommissioned	Yes	No	No
Gwind - Spinwind 2	Norway	5	Concept/Early Planning	Yes	No	No
H2-20	Germany	6	Cancelled	Yes	No	No
He dreiht II	Germany	6	Cancelled	Yes	No	No
Heron	Germany	6	Cancelled	Yes	No	No
Hohe See	Germany	2	Construction	Yes	No	No
Hollandse Kust Noord Holland I and II	Netherlands	5	Concept & Early Planning	Yes	No	No
Hollandse Kust Zuid Holland I and II - Chinook	Netherlands	3	Consented	Yes	No	No
Hollandse Kust Zuid Holland III and IV	Netherlands	5	Concept & Early Planning	Yes	No	No
Hooksiel	Germany	0	Decommissioned	Yes	No	No
Horizont I	Germany	6	Cancelled	Yes	No	No
Horizont II	Germany	6	Cancelled	Yes	No	No
Horizont III	Germany	6	Cancelled	Yes	No	No
Horizont IV	Germany	6	Cancelled	Yes	No	No
Horns Rev 1	Denmark	1	Operational	Yes	No	No
Horns Rev 2	Denmark	1	Operational	Yes	No	No
Horns Rev 3	Denmark	2	Construction	No	No	No
Horns Rev 4	Denmark	6	Development Zone	No	No	No
Horns Rev B HR5	Denmark	6	Development Zone	No	No	No
Horns Rev B HR6	Denmark	6	Development Zone	Yes	No	No
Horns Rev B HR7	Denmark	6	Development Zone	Yes	No	No
Horns Rev Reserved Area	Denmark	6	Development Zone	Yes	No	No
Hornsea Project Four	UK	5	Application in preparation	Yes	Yes	Yes
Hornsea Project One	UK	2	Construction	Yes	Yes	Yes
Hornsea Project Three	UK	4	Application submitted	Yes	Yes	Yes
Hornsea Project Two	UK	3	Consented	Yes	Yes	Yes
HTOD 1	Germany	6	Cancelled	Yes	No	No
HTOD 2	Germany	6	Cancelled	Yes	No	No
HTOD 3	Germany	6	Cancelled	Yes	No	No
HTOD 4	Germany	6	Cancelled	Yes	No	No
HTOD 5	Germany	6	Cancelled	Yes	No	No
HTOD 6	Germany	6	Cancelled	Yes	No	No

Project	Country	Tier	Status	In the MU / reference population are for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
Humber Gateway	UK	1	Operational	Yes	Yes	Yes
Hywind - Demo	Norway	1	Fully Commissioned	Yes	No	No
Hywind Scotland Pilot Park	UK	1	Operational	Yes	No	No
Hywind Tampen	Norway	5	Concept/Early Planning	Yes	No	No
Ideol/Atlantis Energy 1.5 Floating Project	UK	5	Concept & Early Planning	No	No	No
Ideol/Atlantis Energy 1.5 Floating Project - Phase One	UK	5	Concept & Early Planning	Yes	No	No
Ijmuiden	Netherlands	6	Cancelled	Yes	No	No
Inch Cape	UK	3	Application submitted	Yes	No	No
Inner Dowsing	UK	1	Operational	Yes	Yes	Yes
Irene Vorrink	Netherlands	1	Operational	Yes	No	No
Jammerbugt A J1	Denmark	6	Development Zone	Yes	No	No
Jammerbugt A J2	Denmark	6	Development Zone	Yes	No	No
Jammerbugt A J3	Denmark	6	Development Zone	Yes	No	No
Jammerbugt A J4	Denmark	6	Development Zone	Yes	No	No
Jammerbugt B J1	Denmark	6	Development Zone	Yes	No	No
Jammerbugt B J2	Denmark	6	Development Zone	Yes	No	No
Jammerbugt Reserved Area	Denmark	6	Development Zone	Yes	No	No
Jules Verne	Germany	6	Cancelled	Yes	No	No
Kaikas	Germany	6	Cancelled	Yes	No	No
Karmoy - Marine Energy Test Centre	Norway	3	On hold	Yes	No	No
Kaskasi	Germany	3	Consented	Yes	No	No
Kentish Flats	UK	1	Operational	Yes	Yes	Yes
Kentish Flats Extension	UK	1	Operational	Yes	Yes	Yes
Kincardine	UK	2	Construction	Yes	No	No
Kvitsøy Wind Turbine Demonstration Area	Norway	3	Consent Authorised	Yes	No	No
Lely	Netherlands	0	Decommissioned	Yes	No	No
L'eolien en mer region Dunkerque	France	6	Development Zone	Yes	No	No
Levenmouth (Demo)	UK	1	Operational	Yes	No	No
Lincs	UK	1	Operational	Yes	Yes	Yes
London Array	UK	1	Operational	Yes	Yes	Yes

Project	Country	Tier	Status	In the MU / reference population are for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
Lynn	UK	1	Operational	Yes	Yes	Yes
Meerwind Ost Sud	Germany	1	Operational	Yes	No	No
Meerwind West	Germany	6	Cancelled	Yes	No	No
Merkur	Germany	2	Construction / partial operational	Yes	No	No
Mermaid	Belgium	3	Consented	Yes	No	No
Ming Yang 6MW Demo - Metcentre	Norway	6	Cancelled	Yes	No	No
Moray Firth Eastern Development Area 1	UK	3	Consented (Financial Decision Awaiting)	Yes	No	No
Moray Firth Eastern Development Area 2	UK	3	Consented (Financial Decision Awaiting)	No	No	No
Moray Firth Western Development Area	UK	4	Application submitted	Yes	No	No
Nautilus I	Germany	6	Cancelled	Yes	No	No
Neart na Gaoithe	UK	3	Consented	Yes	No	No
Nemo	Germany	6	Cancelled	Yes	No	No
Neptune I	Germany	6	Cancelled	Yes	No	No
Neptune II	Germany	6	Cancelled	Yes	No	No
Neptune III	Germany	6	Cancelled	Yes	No	No
Nisum Bredning Vind	Denmark	1	Operational	Yes	No	No
NOAKA	Norway	5	Concept/Early Planning	No	No	No
Nobelwind	Belgium	1	Operational	No	No	No
Nordergrunde	Germany	1	Operational	No	Yes	Yes
Norderland	Germany	6	Cancelled	Yes	No	No
Nord-Holland boven Noordzeekanaal Potentiele Zoekgebieden	Netherlands	6	Development Zone	Yes	No	No
Nordlicher Grund	Germany	6	Cancelled	Yes	No	No
Nord-Ost Passat I	Germany	6	Cancelled	Yes	No	No
Nord-Ost Passat II	Germany	6	Cancelled	Yes	No	No
Nord-Ost Passat III	Germany	6	Cancelled	Yes	No	No
Nordpassage	Germany	6	Cancelled	Yes	No	No
Nordsee 2 (Innogy Nordsee II)	Germany	6	Cancelled	Yes	No	No
Nordsee 3 (Innogy Nordsee III)	Germany	6	Cancelled	Yes	No	No
Nordsee One (Innogy Nordsee I)	Germany	1	Operational	Yes	No	No
Nordsee Ost	Germany	1	Operational	Yes	No	No
Norfolk Boreas	UK	5	Application in preparation	Yes	Yes	Yes

Project	Country	Tier	Status	In the MU / reference population are for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
Norfolk Vanguard	UK	4	Application submitted	No	Yes	Yes
Norther	Belgium	2	Construction	Yes	Yes	Yes
Northwester 2	Belgium	3	Consented	Yes	Yes	Yes
Northwind	Belgium	1	Operational	Yes	No	No
Okeanos	Netherlands	6	Failed to gain consent	Yes	No	No
Olderveggen (Category B area)	Norway	6	Development Zone	No	No	No
OWP Albatros Phase 1	Germany	2	Construction	Yes	No	No
OWP Albatros Phase 2	Germany	6	Cancelled	Yes	No	No
OWP West	Germany	3	Consented	Yes	No	No
P12	Netherlands	6	Failed to gain consent	Yes	No	No
Parc eolien en mer de Dieppe - Le Treport	France	4	Application submitted	Yes	No	No
Parc éolien en mer de Fécamp	France	3	Consented	Yes	No	No
Petrel	Germany	6	Cancelled	Yes	No	No
Poseidon P60 - Mermaid	Belgium	5	Concept & Early Planning	Yes	No	No
Prinses Amalia Windpark (formerly Q7)	Netherlands	1	Operational	Yes	No	No
PROWIND 1	Germany	6	Cancelled	Yes	No	No
PROWIND 2	Germany	6	Cancelled	Yes	No	No
PROWIND 3	Germany	6	Cancelled	No	No	No
Race Bank	UK	1	Operational	Yes	Yes	Yes
Race Bank Extension	UK	5	Concept & Early Planning	Yes	Yes	Yes
Rampion Extension	UK	5	Concept & Early Planning	Yes	No	No
Rampion Wind Farm	UK	2	Partial operational / under construction	Yes	No	No
Rennesoy Marine Energy Test Centre (Metcentre)	Norway	3	Consent Authorised	Yes	No	No
RENTEL	Belgium	2	Construction / partial operational	Yes	Yes	Yes
Riffgat	Germany	1	Operational	Yes	Yes	Yes
Rijnveld Noord	Netherlands	6	Failed to gain consent	Yes	No	No
Rijnveld Oost	Netherlands	6	Failed to gain consent	Yes	No	No
Rijnveld West	Netherlands	6	Failed to gain consent	Yes	No	No

Project	Country	Tier	Status	In the MU / reference population are for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
Ringkobing Reserved Area	Denmark	6	Development Zone	Yes	No	No
Rønland	Denmark	1	Operational	Yes	No	No
Rotterdam Noord-West	Netherlands	6	Failed to gain consent	Yes	No	No
Sandbank	Germany	1	Operational	Yes	No	No
Sandbank Extension	Germany	6	Cancelled	Yes	No	No
Sandbank Plus	Germany	6	Cancelled	Yes	No	No
Scroby Sands	UK	1	Operational	Yes	Yes	Yes
Seagreen Phase One - Alpha Bravo	UK	3	Consented	Yes	No	No
Seagreen Phase Three - Foxtrot Golf	UK	5	Concept & Early Planning	No	No	No
Seagreen Phase Two - Charlie Delta Echo	UK	5	Concept & Early Planning	Yes	No	No
Seagull	Germany	6	Cancelled	Yes	No	No
SeaStar	Belgium	3	Consented	Yes	No	No
SeaStorm I	Germany	6	Cancelled	Yes	No	No
SeaStorm II	Germany	6	Cancelled	Yes	No	No
SeaTwirl S1	Sweden	1	Operational	Yes	No	No
SeaTwirl S2	Norway	5	Concept & Early Planning	Yes	No	No
SeaWind III	Germany	6	Cancelled	Yes	No	No
SeaWind IV	Germany	6	Cancelled	Yes	No	No
Sheringham Shoal	UK	1	Operational	Yes	Yes	Yes
Sheringham Shoal Extension	UK	5	Concept & Early Planning	Yes	Yes	Yes
Siragrunnen	Norway	6	Failed Proposal	Yes	No	No
Site 1 Southern Moray Firth	UK	6	Development Zone	Yes	No	No
Site 3 East Aberdeen	UK	6	Development Zone	Yes	No	No
Site 5 South East Aberdeen	UK	6	Development Zone	Yes	No	No
Site 6 East Shetland Site	UK	6	Development Zone	Yes	No	No
Skua	Germany	6	Cancelled	Yes	No	No
Sofia (formerly Dogger Bank Teesside B)	UK	3	Consented	Yes	Yes	Yes
SØrlige Nordsjø I (Category A area)	Norway	6	Development Zone	Yes	No	No
SØrlige Nordsjø II (Category A area)	Norway	6	Development Zone	Yes	No	No
SWAY 1:6 Prototype	Norway	0	Decommissioned	Yes	No	No
SWAY 2.6MW Test	Norway	6	Cancelled	Yes	No	No
Teesside	UK	1	Operational	Yes	No	No

Project	Country	Tier	Status	In the MU / reference population are for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
TetraSpar Demo - Metcentre	Norway	3	Pre-construction	Yes	No	No
Thanet	UK	1	Operational	Yes	Yes	Yes
Thanet Extension	UK	4	Application submitted	Yes	Yes	Yes
Thornton Bank phase I	Belgium	1	Operational	Yes	No	No
Thornton Bank phase II	Belgium	1	Operational	Yes	No	No
Thornton Bank phase III	Belgium	1	Operational	Yes	No	No
TLPWIND UK	UK	5	Concept & Early Planning	Yes	No	No
Trianel Windpark Borkum Phase 1 (Borkum West II phase 1)	Germany	1	Operational	Yes	No	No
Trianel Windpark Borkum Phase 2 (aka Borkum West II phase 2)	Germany	2	Construction	Yes	No	No
Triton Knoll phase 1-3	UK	3	Consented	Yes	Yes	Yes
Utsira nord (Category A area)	Norway	6	Development Zone	Yes	No	No
Utsira Phase 1	Norway	6	Dormant	Yes	No	No
Veja Mate	Germany	1	Operational	No	No	No
Vesterhav Nord	Denmark	3	Consented	Yes	No	No
Vesterhav Syd	Denmark	3	Consented	Yes	No	No
Westermeerwind	Netherlands	1	Operational	Yes	No	No
Westermost Rough	UK	1	Operational	Yes	Yes	Yes
WIN 2	France	6	Cancelled	Yes	No	No
Windpark Fryslân	Netherlands	3	Consented	Yes	No	No
Witte Bank	Germany	6	Cancelled	Yes	No	No
Zeeuws Offshore Wind Project	Netherlands	6	Cancelled	Yes	No	No
Zuid-en Noord-Holland onder het Noordzeekanaal Potentiele Zoekgebieden	Netherlands	6	Development Zone	Yes	No	No
Anholt	Denmark	1	Operational	No	No	No
Avedøre Holme	Denmark	1	Operational	No	No	No
Frederikshavn	Denmark	1	Operational	No	No	No
Middelgrunden	Denmark	1	Operational	No	No	No
Barrow	UK	1	Operational	No	No	No
Nysted	Denmark	1	Operational	No	No	No
Rodsand 2	Denmark	1	Operational	No	No	No
Samsø	Denmark	1	Operational	No	No	No
Sprogø	Denmark	1	Operational	No	No	No
Tunø Knob	Denmark	1	Operational	No	No	No

Project	Country	Tier	Status	In the MU / reference population are for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
Kriegers Flak	Denmark	2	Construction	No	No	No
Mejlflak	Denmark	4	Application submitted	No	No	No
Aflandshage	Denmark	5	Concept & Early Planning	No	No	No
Jammerland Bugt	Denmark	5	Concept & Early Planning	No	No	No
Lellebaelt Syd (Lillegrund)	Denmark	5	Concept & Early Planning	No	No	No
Nordre Flint	Denmark	5	Concept & Early Planning	No	No	No
Burbo Bank	UK	1	Operational	No	No	No
Burbo Bank Extension	UK	1	Operational	No	No	No
Omo Syd	Denmark	5	Concept & Early Planning	No	No	No
Kriegers Flak B K1	Denmark	6	Development Zone	No	No	No
Kriegers Flak Reserved Area	Denmark	6	Development Zone	No	No	No
Ronne Banke Reserved Area	Denmark	6	Development Zone	No	No	No
Seaby (Nearshore Tender Area)	Denmark	6	Development Zone	No	No	No
Sejerø Bugten	Denmark	6	Cancelled	No	No	No
Smalandsfarvandet (Nearshore Tender Area)	Denmark	6	Development Zone	No	No	No
Store Middlegrund Reserved Area	Denmark	6	Development Zone	No	No	No
EOLINK Test site	France	1	Operational	No	No	No
Floatgen Project	France	1	Operational	No	No	No
SEM-REV - SITE D'EXPERIMENTATION EN MER - MARINE TEST SITE	France	1	Operational	No	No	No
Nenuphar test site	France	3	Consented	No	No	No
Parc des Iles d'Yeu et de Noirmoutier	France	3	Consented	No	No	No
Projet de parc eolien en mer de Saint Nazaire	France	3	Consented	No	No	No
Projet eolien en mer de la Baie de Saint-Brieuc	France	3	Consented	No	No	No
Les eoliennes flottantes de Groix & Belle-Lie	France	4	Application submitted	No	No	No
EolMed	France	5	Concept / early planning	No	No	No

Project	Country	Tier	Status	In the MU / reference population are for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
EolMed - Ideol & Quadran floating project	France	5	Concept / early planning	No	No	No
Les eoliennes flottantes de Provence Grand Large	France	5	Concept / early planning	No	No	No
Les eoliennes flottantes du Golf du Lion	France	5	Concept / early planning	No	No	No
Spinfloat demo	France	5	Concept / early planning	No	No	No
InFLOW (INDustrialization setup of a FLoating Offshore Wind turbine)	France	6	Cancelled	No	No	No
Floating Power Plant - Dyfed Floating Power	UK	5	Concept & Early Planning	No	No	No
Breitling	Germany	1	Operational	No	No	No
EnBW Baltic 1	Germany	1	Operational	No	No	No
EnBW Baltic 2	Germany	1	Operational	No	No	No
Wikinger	Germany	1	Operational	No	No	No
Arkona	Germany	2	Construction / partial operational	No	No	No
Gwynt y Mor	UK	1	Operational	No	No	No
Gwynt y Mor Extension	UK	5	Concept & Early Planning	No	No	No
Arcadis Ost 1	Germany	3	Consented	No	No	No
Baltic Eagle	Germany	3	Consented	No	No	No
GICON SOF (PILOT)	Germany	3	Pre-construction	No	No	No
Wikinger Sud	Germany	3	Consented	No	No	No
Gennaker	Germany	4	Application submitted	No	No	No
ReaLCoE	Germany	5	Concept & Early Planning	No	No	No
Strom-Nord	Germany	6	Cancelled	No	No	No
Arklow Bank Phase 1	Ireland	1	Operational	No	No	No
North Hoyle	UK	1	Operational	No	No	No
Galway Bay	Ireland	1	Operational	No	No	No
Arklow Bank Phase 2	Ireland	3	Consented	No	No	No
Codling Bank	Ireland	3	Consented	No	No	No
Codling Bank Extension	Ireland	4	Application submitted	No	No	No
Dublin Array	Ireland	4	Application submitted	No	No	No
Oriel Wind Farm	Ireland	4	Application submitted	No	No	No
Sceidre Rocks	Ireland	4	Application submitted	No	No	No

Project	Country	Tier	Status	In the MU / reference population are for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
Clogher Head	Ireland	5	Concept & Early Planning	No	No	No
Floating Power Plant	Ireland	5	Concept & Early Planning	No	No	No
Ormonde	UK	1	Operational	No	No	No
Kilmichael Point	Ireland	5	Concept & Early Planning	No	No	No
North Irish Sea Array	Ireland	5	Concept & Early Planning	No	No	No
Rhyl Flats	UK	1	Operational	No	No	No
Robin Rigg East	UK	1	Operational	No	No	No
Robin Rigg West	UK	1	Operational	No	No	No
Havsul I	Norway	3	Consent Authorised	No	No	No
Test Area Stadt	Norway	3	Consent Authorised	No	No	No
Havvind demo	Norway	5	Concept/Early Planning	No	No	No
Auvær (Category B area)	Norway	6	Development Zone	No	No	No
Frøyabanken (Category B area)	Norway	6	Development Zone	No	No	No
Havsul II	Norway	6	Failed Proposal	No	No	No
Havsul IV	Norway	6	Failed Proposal	No	No	No
Nord Øyan - Ytre Vikna (Category B area)	Norway	6	Development Zone	No	No	No
Stadthavet (Category B area)	Norway	6	Development Zone	No	No	No
Træna vest (Category B area)	Norway	6	Development Zone	No	No	No
Trænafjorden - Selvær (Category B area)	Norway	6	Development Zone	No	No	No
Vannøya nordØst (Category B area)	Norway	6	Development Zone	No	No	No
SeaTwirl P3	Sweden	0	Decommissioned	No	No	No
Bockstigen	Sweden	1	Operational	No	No	No
Karehamn	Sweden	1	Operational	No	No	No
Lillgrund	Sweden	1	Operational	No	No	No
Vindpark Vanern	Sweden	1	Operational	No	No	No
Kattegatt Offshore	Sweden	3	Consent Authorised	No	No	No
Kreigers Flak II	Sweden	3	Consent Authorised	No	No	No
Stenkalles grund	Sweden	3	Consent Authorised	No	No	No
Stora Middelgrund	Sweden	3	Consent Authorised	No	No	No

Project	Country	Tier	Status	In the MU / reference population are for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
Storgrundet	Sweden	3	Consent Authorised	No	No	No
Taggen Vindpark	Sweden	3	Consent Authorised	No	No	No
Sodra Midsjobanken	Sweden	4	Application submitted	No	No	No
Svenska Bjorn Offshore	Sweden	4	Application submitted	No	No	No
Fallbadan	Sweden	5	Concept & Early Planning	No	No	No
Gretas Klacker	Sweden	5	Concept & Early Planning	No	No	No
Gustav Dahlen 1	Sweden	5	Concept & Early Planning	No	No	No
Gustav Dahlen 2	Sweden	5	Concept & Early Planning	No	No	No
Langgrund	Sweden	5	Concept & Early Planning	No	No	No
Langgrund II	Sweden	5	Concept & Early Planning	No	No	No
Oskarshamn	Sweden	5	Concept & Early Planning	No	No	No
Walney Extension	UK	1	Operational	No	No	No
Walney Phase 1	UK	1	Operational	No	No	No
Walney Phase 2	UK	1	Operational	No	No	No
West of Duddon Sands	UK	1	Operational	No	No	No
Rata Storgrund - phase 1	Sweden	5	Concept & Early Planning	No	No	No
Rata Storgrund - phase 2	Sweden	5	Concept & Early Planning	No	No	No
Syd kustens Vind	Sweden	5	Concept & Early Planning	No	No	No
Utnallen	Sweden	5	Concept & Early Planning	No	No	No
Utposten	Sweden	5	Concept & Early Planning	No	No	No
Utposten II	Sweden	5	Concept & Early Planning	No	No	No
Hakefjorden - Vindplats Göteborg	Sweden	6	Failed Proposal	No	No	No
Skottarevsprojektet	Sweden	6	Failed Proposal	No	No	No

11.12 Annex 2 Initial List of UK Wave and Tidal Projects Considered Within the CIA Screening

Project	Type	Status	Tier	In the MU / reference population area for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
Bardsey Sound	Tidal	In development	5	N	N	N
Bernera	Wave	Cancelled	6	N	N	N
Billia Croo Development area	Wave	Operational	1	Y	N	N
Bluemell Sound	Tidal	Operational	1	Y	N	N
Brims tidal array Phase 1	Tidal	In planning	4	Y	N	N
Brims tidal array Phase 2	Tidal	In planning	4	Y	N	N
Brough Head (Aquamarine Power)	Wave	Cancelled	6	Y	N	N
Cardiff Tidal Lagoon	Tidal	In development	5	N	N	N
Costa Head	Wave	Cancelled	6	Y	N	N
Duddon Estuary Tidal Lagoon	Tidal	In development	5	N	N	N
EMEC - Aquamarine Power Phase 2	Wave	Inactive	0	Y	N	N
EMEC Alstom	Tidal	Decommissioned	0	Y	N	N
EMEC Andritz Hydro Hammerfest	tidal	Decommissioned	0	Y	N	N
EMEC Atlantis Resources AK1000	Wave	Decommissioned	0	Y	N	N
EMEC Atlantis Resources AR1000	Wave	Decommissioned	0	Y	N	N
EMEC Clean Energy From Ocean Waves (CEFOW) Phase 1	Wave	Consented	3	Y	N	N
EMEC Flumill	Tidal	Decommissioned	0	Y	N	N
EMEC Harris Demo Zone	Wave	In development	5	N	N	N
EMEC Islay Demo Zone	Tidal	In development	5	N	N	N
EMEC Laminaria	Wave	Consented	3	Y	N	N
EMEC Magallanes	Tidal	Decommissioned	0	Y	N	N
EMEC Nautricity Phase 1	Tidal	Decommissioned	0	Y	N	N
EMEC Nautricity Phase 2	Tidal	Decommissioned	0	Y	N	N
EMEC OpenHydro	Tidal	Operational	1	Y	N	N
EMEC Pelamis Wave Power P1	Wave	Decommissioned	0	Y	N	N
EMEC Scapa Flow (CorPower Ocean)	Wave	Operational	1	Y	N	N
EMEC Scotrenewables SR2000	Tidal	Operational	1	Y	N	N
EMEC Scotrenewables SR250	tidal	Decommissioned	0	Y	N	N

Project	Type	Status	Tier	In the MU / reference population area for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
EMEC Seatricity	Wave	Operational	1	Y	N	N
EMEC Stronsay Firth	Tidal	In development	5	Y	N	N
EMEC Sustainable Marine Energy	Tidal	Construction	2	Y	N	N
EMEC Tocado Phase 1	tidal	Decommissioned	0	Y	N	N
EMEC Tocado Phase 2	Tidal	Consented	3	Y	N	N
EMEC Voith Hydro	Tidal	Decommissioned	0	Y	N	N
EMEC Wello Oy	Wave	Operational	1	Y	N	N
Fabtest Fred Olsen	Wave	Decommissioned	0	N	N	N
Fabtest Polygen	Wave	Operational	1	N	N	N
FabTest WaveSub	Wave	Construction	2	N	N	N
Fair Head Phase 1	Tidal	In development	5	N	N	N
Fair Head Phase 2	Tidal	In development	5	N	N	N
Farr Point - Pelamis wave power	Wave	Cancelled	6	N	N	N
Galson	Wave	On hold	3	N	N	N
Holyhead Deep	Tidal	Construction	2	N	N	N
Humber Pulse Tidal	Tidal	Decommissioned	0	Y	Y	Y
Lashy Sound (1 & 2)	Tidal	Pre-Scoping	5	Y	N	N
Marwick Head	Wave	Cancelled	6	Y	N	N
MeyGen Pentland Firth Phase 1a	Tidal	Operational	1	Y	N	N
MeyGen Pentland Firth Phase 1B	Tidal	Consented	3	Y	N	N
MeyGen Pentland Firth Phase 1C	Tidal	Consented	3	Y	N	N
MeyGen Pentland Firth Phase 2	Tidal	In development	5	Y	N	N
Minesto Strangford Loch	Tidal	Operational	1	N	N	N
Morecambe Bay Tidal Lagoon	Tidal	In development	5	N	N	N
Morlais	Tidal	In development	5	N	N	N
Mull of Galloway	Tidal	In development	5	N	N	N
Mull of Kintyre Phase 1	Tidal	Pre-construction	3	N	N	N
Mull of Kintyre Phase 2	Tidal	In development	5	N	N	N
mWave	Wave	In development	5	N	N	N
Ness of Duncansby Phase 1	Tidal	In development	5	Y	N	N
Ness of Duncansby Phase 2	Tidal	In development	5	Y	N	N
North-West Lewis	Wave	Cancelled	6	N	N	N
Perpetuus Tidal Energy Centre (PTEC)	Tidal	Consented	3	Y	N	N
PLAT-1 Floating Tidal Energy	Tidal	Construction	2	N	N	N

Project	Type	Status	Tier	In the MU / reference population area for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
Pontnahaven	Wave	Decommissioned	0	N	N	N
Portland Bill Tidal Site	Tidal	In development	5	Y	N	N
Ramsey Sound	Tidal	Decommissioned	0	N	N	N
Sanda Sound	Tidal	Decommissioned	0	N	N	N
Scilly Airport WEP	Wave	Cancelled	6	N	N	N
Seagen Angelsey Skerries	Tidal	Cancelled	6	N	N	N
Seagen Brough Nesss	Tidal	In development	5	Y	N	N
Seagen Kyle Rhea	Tidal	Cancelled	6	N	N	N
Seagen Strangford Loch	Tidal	Operational	1	N	N	N
Seagen Strangford Loch Array	Tidal	In development	5	N	N	N
Shetland Tidal Array Phase 1	Tidal	Operational	1	Y	N	N
Shetland Tidal Array Phase 2	Tidal	Consented	3	Y	N	N
Sound of Islay	Tidal	Pre-construction	3	N	N	N
South Pembrokeshire Demo Zone	Wave	In development	5	N	N	N
St Davids Head	Tidal	In development	5	N	N	N
Swansea Bay Tidal Lagoon	Tidal	Pre-construction	3	N	N	N
Torr Head	Tidal	In development	5	N	N	N
Wave Hub (Carnegie)	Wave	Consented	3	N	N	N
Wave Hub (GWave)	Wave	Consented	3	N	N	N
Wave Hub (Seatricity 1)	Wave	Operational	1	N	N	N
Wave Hub (Seatricity 2)	Wave	Consented	3	N	N	N
Wave Hub (South Pembrokeshire)	Wave	In development	5	N	N	N
Wave Hub North Devon Test Site	Tidal	In development	5	N	N	N
Wave Hub: North Cornwall Demo Zone	Wave	Operational	1	N	N	N
Wave Hub: North Devon Demo Zone	Tidal	In development	5	N	N	N
Wave Net Array	Wave	Operational	1	N	N	N
West Anglesey Demo Zone	Tidal	In development	5	N	N	N
West Islay Tidal Energy Park	Tidal	Consented	3	N	N	N
West Orkney Middle South Phase 1	Wave	Cancelled	6	Y	N	N
West Orkney Middle South Phase 2	Wave	Cancelled	6	Y	N	N
West Orkney South	Wave	Cancelled	6	Y	N	N
West Somerset Tidal Lagoon	Tidal	In development	5	N	N	N

Project	Type	Status	Tier	In the MU / reference population area for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
Westray South	Tidal	Application in prep	5	Y	N	N
Wyre Estuary Tidal Barrage	Tidal	In development	5	N	N	N