

East Anglia ONE North 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
EA1N	East Anglia ONE North 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 ONE North 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 ONE North project.
6. The first stage of the screening is based on the widest possible range of construction dates for the proposed East Anglia ONE North project between 2021 and 2033, based on consent in 2021, seven year construction window from date of consent and a total construction period of 5 years. This is then refined to take into account planned construction between 2022 and 2027 under construction scenario 1 (East Anglia TWO and East Anglia ONE North being constructed at the same time) and between 2026 and 2029 under construction scenario 2. Note that there will never be any concurrent piling taking place under any scenario for the construction of East Anglia ONE North or East Anglia TWO.

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 ONE North 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 ONE North 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), or the known construction period for that project. 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 ONE North 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 49 UK offshore wind farms with the potential for construction, operation and decommissioning cumulative impacts on harbour porpoise. Of the 49 projects, 12 have the potential for construction to overlap with the proposed construction of the proposed East Anglia ONE North project.
13. Operational wind farms were considered part of the baseline if they were operational at the time of site specific surveys (September 2016). Therefore, 24 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 ONE North project.
14. All 49 projects have the potential for decommissioning to overlap with the operation and maintenance or decommissioning of the proposed East Anglia

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

15. For grey seal, 35 projects have been screened in, with the potential of construction cumulative impacts for 11 projects; operation and maintenance cumulative impacts for 18 tier 2-5 projects; and decommissioning cumulative impacts for all 35 projects.
16. For harbour seal, 31 projects were screened in, with ten projects having the potential of construction cumulative impacts; 15 tier 2-5 projects 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**

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 ONE North project (EA1N) construction, operation or decommissioning phases

Project	Tier	Time of Consent	Distance to EA1N (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 (Commissioned by 2018)	384.6	No	Yes	Yes	Yes	No	No	No
Dudgeon	1	2012 (Commissioned by 2017)	105.2	No	Yes	Yes	Yes	Yes	No	No
European Offshore Wind Deployment Centre EOWDC (Aberdeen Demonstration)	1	Mar-1 (Commissioned by 2018)	598.7	No	Yes	Yes	No	No	No	No
Galloper	1	May-13 (Commissioned by 2018)	38.8	No	Yes	Yes	Yes	Yes	No	Yes
Greater Gabbard	1	2002 (Commissioned by 2009)	43.2	No	No	Yes	Yes	Yes	No	Yes

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				Construction	Operation	HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
Gunfleet Sands 3 Demo Zone	1	2012 (Commissioned by 2013)	105.2	No	No	Yes	Yes	Yes	No	No
Gunfleet Sands I Wind Farm	1	2004 (Commissioned by 2010)	100.1	No	No	Yes	Yes	Yes	No	No
Humber Gateway Wind Farm	1	2011 (Commissioned by 2015)	188.4	No	No	Yes	Yes	Yes	No	No
Hywind Pilot Park	1	Oct-15 (Commissioned by 2017)	599.4	No	Yes	Yes	No	No	No	No
Inner Dowsing	1	2003 (Commissioned by 2009)	148.6	No	No	Yes	Yes	Yes	No	No
Kentish Flats	1	2003 (Commissioned by 2005)	125.7	No	No	Yes	Yes	Yes	No	No
Kentish Flats Extension	1	2013	126.3	No	No	Yes	Yes	Yes	No	No

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				Construction	Operation	HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
		(Commissioned by 2015)								
Levenmouth (Demo)	1	2013 (Commissioned by 2013)	540.2	No	No	Yes	No	No	No	No
Lincs	1	2008 (Commissioned by 2013)	144.3	No	No	Yes	Yes	Yes	No	No
London Array	1	2006 (Commissioned by 2013)	88.5	No	No	Yes	Yes	Yes	No	No
Lynn	1	2003 (Commissioned by 2008)	145.3	No	No	Yes	Yes	Yes	No	No
Race Bank	1	2012 (Commissioned by 2017)	129.3	No	Yes	Yes	Yes	Yes	No	No
Scroby Sands	1	2002 (Commissioned by 2004)	43.8	No	No	Yes	Yes	Yes	No	Yes

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				Construction	Operation	HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
Sheringham Shoal	1	2008 (Commissioned by 2012)	104.3	No	No	Yes	Yes	Yes	No	No
Teesside	1	2007 (Commissioned by 2013)	332.0	No	No	Yes	Yes	No	No	No
Thanet	1	2006 (Commissioned by 2010)	105.8	No	No	Yes	Yes	Yes	No	Yes
Westermest Rough	1	2011 (2014)	207.0	No	No	Yes	Yes	Yes	No	No
Beatrice	2	Mar-14	720.4	No	Yes	Yes	No	No	No	No
East Anglia ONE	2	Jun-14	1.3	No	Yes	Yes	Yes	Yes	No	Yes
Hornsea Project One	2	Dec-14	154.5	No	Yes	Yes	Yes	Yes	Yes	No
Kincardine (floating turbines)	2	Mar-17	581.4	No	Yes	Yes	No	No	No	No
Rampion Wind Farm	2	Jul-14	251.0	No	Yes	Yes	No	No	No	No

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				Construction	Operation	HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
Blyth demonstration site (3A & 4)	3	Nov-13	382.8	No	Yes	Yes	Yes	No	No	No
Dogger Bank Zone Creyke Beck A	3	Feb-14	248.6	Yes	Yes	Yes	Yes	Yes	Yes	No
Dogger Bank Zone Creyke Beck B	3	Feb-14	271.6	Yes	Yes	Yes	Yes	Yes	Yes	No
Dogger Bank Zone Teeside A	3	Aug-15	281.6	Yes	Yes	Yes	Yes	Yes	Yes	No
Dounreay Tri	3	ON-HOLD	105.8	No	No	Yes	No	No	No	No
East Anglia Three	3	2017	16.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Firth of Forth Phase 1 Seagreen Alpha	3	ON-HOLD	518.8	No	No	Yes	No	No	No	No
Firth of Forth Phase 1 Seagreen Bravo	3	ON-HOLD	518.8	No	No	Yes	No	No	No	No
ForthWind Demo Phase 1	3	ON-HOLD	545.6	No	No	Yes	No	No	No	No
Hornsea Project Two	3	Aug-16	163.2	No	Yes	Yes	Yes	Yes	Yes	No

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				Construction	Operation	HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
Inch Cape	3	ON-HOLD	529.0	No	No	Yes	No	No	No	No
Moray Firth East	3	2014	706.7	Yes	Yes	Yes	No	No	No	No
Neart na Gaoithe	3	ON-HOLD	511.3	No	No	Yes	No	No	No	No
Sofia (previously Dogger Bank Zone Teesside B)	3	Aug-15	267.5	Yes	Yes	Yes	Yes	No	Yes	No
Triton Knoll phase 1-3 43	3	Jul-13	138.9	No	Yes	Yes	Yes	Yes	No	No
Hornsea Project Three	4	Decision Pending	140.9	Yes	No	Yes	Yes	Yes	No	No
Moray Firth West	4	ON-HOLD	709.9	No	No	Yes	No	No	No	No
Norfolk Vanguard	4	Decision Pending	38.1	Yes	No	Yes	Yes	Yes	Yes	Yes
Thanet Extension	4	Decision Pending	100.4	Yes	Yes	Yes	Yes	Yes	No	Yes
Norfolk Boreas	5	Pre-submission	50.7	Yes	Yes	Yes	Yes	Yes	Yes	No
East Anglia TWO	5	Pre-submission	10.1	Yes	Yes	Yes	Yes	Yes	No	Yes

Project	Tier	Time of Consent	Distance to EA1N (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)
Hornsea Project Four	5	Pre-submission	167.0	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 69 European offshore wind farms with the potential for construction, operation and decommissioning cumulative impacts on harbour porpoise. Of the 69 projects, nine have the potential for construction to overlap with the proposed construction of the proposed East Anglia ONE North project; 38 projects have the potential for operation and maintenance to overlap with the construction, operation and maintenance or decommissioning of the proposed East Anglia ONE North project; and all projects have the potential for decommissioning to overlap with the operation and maintenance or decommissioning of the proposed East Anglia ONE North project, and therefore have potential of cumulative impacts for harbour porpoise.
19. For grey seal, four projects have been screened in, with the potential of construction cumulative impacts for one of the projects; operation and maintenance cumulative impacts for three projects; and decommissioning cumulative impacts for all four projects.
20. For harbour seal, four projects were screened in, one of which has the potential of construction cumulative impacts; three with potential operations and maintenance cumulative impacts; and all four with possible decommissioning cumulative impacts. The results of the screening are presented in **Table A11.2.2**.

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 ONE North project construction, operation or decommissioning phases.

Project	Country	Tier	Time of Consent	Distance to EA1N (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 (Commissioned by 2014)	71.9	No	No	Yes	No	No
Belwind phase 1	Belgium	1	2008 (Commissioned by 2010)	71.9	No	No	Yes	No	No
Nobelwind	Belgium	1	2008 (Commissioned by 2017)	71.9	No	Yes	Yes	No	No
Northwind	Belgium	1	2009 (Commissioned by 2014)	82.3	No	No	Yes	No	No
Thornton Bank phase I	Belgium	1	2004 (Commissioned by 2009)	90.9	No	No	Yes	No	No

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Project	Country	Tier	Time of Consent	Distance to EA1N (km)	Phase of Project Considered in CIA			Spatial Area Screened in for	
					Construction	Operation	HP MU	GS MU	HS MU
Thornton Bank phase II	Belgium	1	2004 (Commissioned by 2013)	90.9	No	No	Yes	No	No
Thornton Bank phase III	Belgium	1	2004 (Commissioned by 2013)	90.9	No	No	Yes	No	No
Horns Rev I	Denmark	1	2001 (Commissioned by 2002)	481.9	No	No	Yes	No	No
Horns Rev II	Denmark	1	2007 (Commissioned by 2010)	476.8	No	No	Yes	No	No
Nisum Bredning Vind	Denmark	1	2017 (Commissioned by 2018)	596.0	No	Yes	Yes	No	No
Rønland	Denmark	1	2009	595.3	No	No	Yes	No	No

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					Construction	Operation	HP MU	GS MU	HS MU
			(Commissioned by 2014)						
Alpha Ventus	Germany	1	2001 (Commissioned by 2010)	320.5	No	No	Yes	No	No
Amrumbank West	Germany	1	2004 (Commissioned by 2015)	408.2	No	No	Yes	No	No
BARD Offshore 1	Germany	1	2007 (Commissioned by 2013)	306.1	No	No	Yes	No	No
Borkum Riffgrund 1	Germany	1	2001 (Commissioned by 2010)	313.2	No	No	Yes	No	No
Butendiek (Offshore-Bürger- windpark)	Germany	1	2002 (Commissioned by 2015)	445.1	No	No	Yes	No	No

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Project	Country	Tier	Time of Consent	Distance to EA1N (km)	Phase of Project Considered in CIA			Spatial Area Screened in for	
					Construction	Operation	HP MU	GS MU	HS MU
DanTysk	Germany	1	2005 (Commissioned by 2015)	422.1	No	No	Yes	No	No
ENOVA Ems Emden	Germany	1	2003 (Commissioned by 2004)	327.0	No	No	Yes	No	No
Global Tech I	Germany	1	2006 (Commissioned by 2015)	339.0	No	No	Yes	No	No
Gode Wind 1 and 2	Germany	1	2009 (Commissioned by 2017)	339.8	No	Yes	Yes	No	No
Meerwind Sued/Ost	Germany	1	2007 (Commissioned by 2014)	399.0	No	No	Yes	No	No
Nordergruende	Germany	1	2008	405.0	No	Yes	Yes	No	No

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					Construction	Operation	HP MU	GS MU	HS MU
			(Commissioned by 2017)						
Nordsee One (Innogy Nordsee I)	Germany	1	2012 (Commissioned by 2017)	327.0	No	Yes	Yes	No	No
Nordsee Ost	Germany	1	2004 (Commissioned by 2015)	402.0	No	No	Yes	No	No
Riffgat	Germany	1	2010 (Commissioned by 2014)	294.5	No	No	Yes	Yes	Yes
Sandbank	Germany	1	2004 (Commissioned by 2017)	411.8	No	Yes	Yes	No	No
Trianel Windpark Borkum Phase 1 (Borkum West II phase 1)	Germany	1	2008 (Commissioned by 2015)	312.4	No	No	Yes	No	No

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Project	Country	Tier	Time of Consent	Distance to EA1N (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 (Commissioned by 2017)	298.6	No	Yes	Yes	No	No
Egmond aan Zee (aka OWEZ)	Netherlands	1	2005 (Commissioned by 2007)	123.4	No	No	Yes	No	No
Eneco Luchterduinen	Netherlands	1	2012 (Commissioned by 2015)	103.2	No	No	Yes	No	No
Gemini	Netherlands	1	2009 (Commissioned by 2017)	281.9	No	Yes	Yes	No	No
Irene Vorrink	Netherlands	1	Unknown (Commissioned by 1996)	204.6	No	No	Yes	No	No
Prinses Amalia Windpark (formerly Q7)	Netherlands	1	2002	110.6	No	No	Yes	No	No

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					Construction	Operation	HP MU	GS MU	HS MU
			(Commissioned by 2007)						
Westermeerwind	Netherlands	1	2012 (Commissioned by 2016)	202.8	No	No	Yes	No	No
Hywind - Demo	Norway	1	2006 (Commissioned by 2009)	763.9	No	No	Yes	No	No
Karmoy Marine Energy Test Centre (Metcentre)	Norway	1	2010	763.9	No	Yes	Yes	No	No
SeaTwirl S1	Sweden	1	2015 (Commissioned by 2015)	657.5	No	No	Yes	No	No
RENTEL	Belgium	2	2013	84.8	No	Yes	Yes	Yes	Yes
Norther	Belgium	2	2012	91.0	No	Yes	Yes	Yes	Yes
Horns Rev III	Denmark	2	2015	493.9	No	Yes	Yes	No	No

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					Construction	Operation	HP MU	GS MU	HS MU
Borkum Riffgrund 2	Germany	2	2011	309.1	No	Yes	Yes	No	No
Deutsche Bucht	Germany	2	2010	296.8	No	Yes	Yes	No	No
EnBW Hohe See	Germany	2	Jul-06	333.3	No	Yes	Yes	No	No
Merkur Offshore (MEG Offshore I)	Germany	2	2009	315.9	No	Yes	Yes	No	No
OWP Albatros Phase 1	Germany	2	2015	333.1	No	Yes	Yes	No	No
Trianel Windpark Borkum Phase 2 (aka Borkum West II phase 2)	Germany	2	2007	310.9	No	Yes	Yes	No	No
Mermaid	Belgium	3	2015	68.3	No	Yes	Yes	No	No
Northwester 2	Belgium	3	2015	68.3	Yes	Yes	Yes	Yes	Yes
Seastar	Belgium	3	2014	78.2	No	Yes	Yes	No	No
Vesterhav Nord/Syd	Denmark	3	2016	578.8	Yes	Yes	Yes	No	No
Eoliennes du Calvados	France	3	2016		Yes	Yes	Yes	No	No

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					Construction	Operation	HP MU	GS MU	HS MU
Parc éolien en mer de Fécamp	France	3	2016		Yes	Yes	Yes	No	No
Borkum Riffgrund West	Germany	3	2004	299.9	No	Yes	Yes	No	No
Borkum Riffgrund West II	Germany	3	2017	295.7	Yes	Yes	Yes	No	No
Deutsche Bucht Pilot Park	Germany	3	Unknown	296.8	No	No	Yes	No	No
EnBW He Dreiht	Germany	3	2010	317.5	No	Yes	Yes	No	No
Gode Wind 03	Germany	3	2016	346.7	Yes	Yes	Yes	No	No
Gode Wind 04	Germany	3	2009	346.7	Yes	Yes	Yes	No	No
Kaskasi	Germany	3	2018		Yes	Yes	Yes	No	No
OWP West	Germany	3	2011	295.2	No	Yes	Yes	No	No
Borssele I and II	Netherlands	3	2016	68.9	No	Yes	Yes	No	No
Borssele III and IV	Netherlands	3	2016	73.5	No	Yes	Yes	No	No
	Netherlands	3	2016	73.5	No	Yes	Yes	No	No

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					Construction	Operation	HP MU	GS MU	HS MU
Hollandse Kust Zuid Holland I and II - Chinook	Netherlands	3	2018		Yes	Yes	Yes	No	No
Windpark Fryslân	Netherlands	3	2018		No	Yes	Yes	No	No
Dr Techn Olav Olsen and Seawind Systems Demo	Norway	3	ON HOLD	761.2	No	No	Yes	No	No
Kvitsøy Wind Turbine Demonstration Area	Norway	3	2010	761.2	No	Yes	Yes	No	No
Rennesøy Wind Turbine Demonstration Area	Norway	3	2010	762.2	No	Yes	Yes	No	No
TetraSpar Demo - Metcentre	Norway	3	Unknown	756.4	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 ONE North 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, none of which have the potential for construction to overlap with the proposed construction of the proposed East Anglia ONE North 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 ONE North project construction, operation or decommissioning

Project	Type	Tier	Phase of Plan considered in CIA			Spatial Area Screened in for				
			Construction	Operation & Maintenance	Decommissioning	HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
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	No	Yes	Yes	Yes	No	No	No	No
Brims Tidal Array Phase 2	Tidal	4	No	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 Tocado Phase 2	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				
			Construction	Operation & Maintenance	Decommissioning	HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
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
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 68 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 ONE North 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 ONE North projects construction, operation or decommissioning phases.

Project	Aggregate Area	Distance to EA1N	Tier	Spatial Area Screened in for				
				HP MU	GS MU	HS MU	SNS cSAC / SCI (Summer)	SNS cSAC / SCI (Winter)
Area 1 South	478	254.1	1	Yes	No	No	No	No
Colbart	530	160.3	1	Yes	Yes	Yes	No	No
Cross Sands	242 -361/1-3	18.5	1	Yes	Yes	Yes	Yes	Yes
EEC 1	529	229.2	1	Yes	Yes	Yes	No	No
EEC North	473, 474 & 475	231.4	1	Yes	No	No	No	No
Goodwin Sands	521	132.2	1	Yes	Yes	Yes	No	No
Greenwich Light East	473/1	239.1	1	Yes	No	No	No	No
Greenwich Light East	473/2	239.1	1	Yes	No	No	No	Yes
Humber 1 & 2	514	183.8	1	Yes	Yes	Yes	No	No
Humber 3	484	116.9	1	Yes	Yes	Yes	Yes	No
Humber 3	514/3	116.9	1	Yes	Yes	Yes	Yes	No
Humber 4	514/4	174.8	1	Yes	Yes	Yes	Yes	No
Humber 4 and 7	506	145	1	Yes	Yes	Yes	No	No

Project	Aggregate Area	Distance to EA1N	Tier	Spatial Area Screened in for				
				HP MU	GS MU	HS MU	SNS cSAC / SCI (Summer)	SNS cSAC / SCI (Winter)
Humber 5	483	131.7	1	Yes	Yes	Yes	Yes	No
Humber Estuary	400 & 106/1-3	155.4	1	Yes	Yes	Yes	No	No
Humber Overfalls	493	163.8	1	Yes	Yes	Yes	No	No
Inner Dowsing	481/1-2	141.6	1	Yes	Yes	Yes	No	No
Inner Owers	396/1-2	261.2	1	Yes	No	No	No	No
Inner Owers	435/1-2	261.2	1	Yes	No	No	No	No
Inner Owers North	488	268.2	1	Yes	No	No	No	No
Longsand	508	75.0	1	Yes	Yes	Yes	No	Yes
Longsand	509/1-3	75.0	1	Yes	Yes	Yes	No	Yes
Longsand	510/1-2	75.0	1	Yes	Yes	Yes	No	Yes
Median Deep	461	266.0	1	Yes	Yes	No	No	No
Needles Isle of Wight	137	331.5	1	Yes	Yes	No	No	No
New 495	525	13.9	1	Yes	Yes	No	Yes	Yes
Norfolk	212	38.9	1	Yes	Yes	Yes	Yes	Yes

Project	Aggregate Area	Distance to EA1N	Tier	Spatial Area Screened in for				
				HP MU	GS MU	HS MU	SNS cSAC / SCI (Summer)	SNS cSAC / SCI (Winter)
North Cross Sands	494	30.9	1	Yes	Yes	Yes	Yes	Yes
North Falls East	501	66.5	1	Yes	Yes	Yes	No	Yes
North Inner Gabbard	498	40.1	1	Yes	Yes	Yes	No	No
North Nab	372/1	298.9	1	Yes	No	No	No	No
Off Great Yarmouth	228	23.6	1	Yes	Yes	Yes	Yes	Yes
Off Great Yarmouth	254	23.6	1	Yes	Yes	Yes	Yes	Yes
Off Great Yarmouth Extension	240	24.9	1	Yes	Yes	Yes	Yes	Yes
Off Saltfleet	197	162.3	1	Yes	Yes	Yes	No	No
Off Selsey Bill	395/1-2	292.3	1	Yes	No	No	No	No
Outer Dowsing	515/1-2	132.6	1	Yes	Yes	Yes	No	No
Outer OTE	528/2	85.0	1	Yes	Yes	Yes	No	Yes
Owers Extension	453	266.5	1	Yes	No	No	No	No
Shipwash	507	45.1	1	Yes	Yes	Yes	No	Yes
South East Isle of Wight	340	293.2	1	Yes	No	No	No	No

Project	Aggregate Area	Distance to EA1N	Tier	Spatial Area Screened in for				
				HP MU	GS MU	HS MU	SNS cSAC / SCI (Summer)	SNS cSAC / SCI (Winter)
South East Isle of Wight	351	293.2	1	Yes	No	No	No	No
South Hastings	460	211.1	1	Yes	No	No	No	No
South of Needles Channel	500/3	337.7	1	Yes	No	No	No	No
South West Isle of Wight	500/4	342.7	1	Yes	No	No	No	No
South West Isle of Wight	127/1-3	342.7	1	Yes	No	No	No	No
South Wight	500/1-2	343.2	1	Yes	No	No	No	No
Southwold East	430	18.3	1	Yes	Yes	Yes	Yes	Yes
St Catherine's	407	296.2	1	Yes	No	No	No	No
St Catherine's	451	296.2	1	Yes	No	No	No	No
TBC	511	26.7	1	Yes	Yes	Yes	No	Yes
TBC	512	19.8	1	Yes	Yes	Yes	No	Yes
TBC	513/1-2	18.6	1	Yes	Yes	Yes	Yes	Yes
West Bassurelle	458 & 464	230.5	1	Yes	No	No	No	No
West Wight	522	329.8	1	Yes	No	No	No	No

Project	Aggregate Area	Distance to EA1N	Tier	Spatial Area Screened in for				
				HP MU	GS MU	HS MU	SNS cSAC / SCI (Summer)	SNS cSAC / SCI (Winter)
Yarmouth	401/2A	11.4	1	Yes	Yes	Yes	Yes	Yes
Yarmouth	401/2B	12.5	1	Yes	Yes	Yes	Yes	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				
			Construction	Operation & Maintenance	Decommissioning	HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
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 ONE North 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 ONE North 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 ONE North 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 344 licences have been granted for the licence blocks or part blocks in the MU for harbour porpoise, 130 in the MU for grey seal and 82 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 ONE North project construction, operation or decommissioning phases.

Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				Included in Summer cSAC	Included in winter cSAC
			HP MU	GS MU	HS MU			
11/24b	28	735.79657	Yes	No	No		No	No
12/28 (Part)	28	704.7	Yes	No	No		No	No
12/29a	28	695.57621	Yes	No	No		No	No
13/16b	28	706.56741	Yes	No	No		No	No
13/17	28	701.99759	Yes	No	No		No	No
13/21c	30	690.13291	Yes	No	No		No	No
13/23c	30	681.76909	Yes	No	No		No	No
14/13a	29	697.75127	Yes	No	No		No	No
14/13b	29	710.29952	Yes	No	No		No	No
14/14a	29	702.00381	Yes	No	No		No	No
14/14b	29	694.79981	Yes	No	No		No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
14/15a	29	699.30255	Yes	No	No	No	No
14/15b	29	693.17817	Yes	No	No	No	No
14/18c	30	679.87837	Yes	No	No	No	No
14/19c	30	691.89124	Yes	No	No	No	No
14/20f	30	684.83226	Yes	No	No	No	No
14/23	30	662.01814	Yes	No	No	No	No
14/24	30	658.87753	Yes	Yes	No	No	No
14/25a	28	669.28622	Yes	No	No	No	No
14/26c	28	650.56141	Yes	No	No	No	No
14/27a	28	646.79444	Yes	No	No	No	No
14/28	30	644.19805	Yes	No	No	No	No
14/29a	30	649.88923	Yes	No	No	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
14/29b	30	640.933	Yes	No	No	No	No
14/30a	30	648.38086	Yes	No	No	No	No
142/28a	29	907.61084	Yes	No	No	No	No
142/29a	29	897.03214	Yes	No	No	No	No
15/11b	29	696.81845	Yes	No	No	No	No
15/14	29	681.99162	Yes	No	No	No	No
15/15	29	680.31871	Yes	No	No	No	No
15/16d	28	679.21191	Yes	No	No	No	No
15/18a	30	675.666	Yes	No	No	No	No
15/18b	28	678.75004	Yes	No	No	No	No
15/18d	30	674.77566	Yes	No	No	No	No
15/19a	30	669.15315	Yes	No	No	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
15/19b	30	672.08899	Yes	No	No	No	No
15/20d	30	669.30505	Yes	No	No	No	No
15/23b	28	647.35489	Yes	No	No	No	No
15/28a	30	629.11248	Yes	No	No	No	No
15/29c	30	627.03831	Yes	No	No	No	No
15/29d	30	639.85489	Yes	No	No	No	No
15/29e	30	627.01652	Yes	No	No	No	No
15/30c	30	625.19296	Yes	No	No	No	No
15/9a	29	700.34267	Yes	No	No	No	No
16/11a	29	689.94323	Yes	No	No	No	No
16/11b	30	678.89948	Yes	No	No	No	No
16/16	30	660.45868	Yes	No	No	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
16/1b	28	716.42747	Yes	No	No	No	No
16/1c & 16/2a	29	725.7	Yes	No	No	No	No
16/22c	28	640.90833	Yes	No	No	No	No
16/24c	28	639.1311	Yes	No	No	No	No
16/28d	30	621.18199	Yes	No	No	No	No
16/29e	30	620.47811	Yes	No	No	No	No
16/2a	29	714.63831	Yes	No	No	No	No
16/6b	29	697.32291	Yes	No	No	No	No
16/8c	28	695.43858	Yes	No	No	No	No
2/5b	29	938.57668	Yes	No	No	No	No
20/2b	28	641.50027	Yes	No	No	No	No
20/3c	28	625.51069	Yes	No	No	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
20/4a	28	627.32895	Yes	No	No	No	No
20/5b	28	618.92015	Yes	No	No	No	No
20/7c	28	611.5926	Yes	No	No	No	No
20/8a	28	607.81482	Yes	No	No	No	No
205/10	28	972.64828	Yes	No	No	No	No
205/13	28	964.08929	Yes	No	No	No	No
205/14a	30	960.36665	Yes	No	No	No	No
205/19	30	943.32482	Yes	No	No	No	No
205/25	30	921.89371	Yes	No	No	No	No
205/9a	28	976.80418	Yes	No	No	No	No
206/10a	30	969.79435	Yes	No	No	No	No
206/11d	30	953.79494	Yes	No	No	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
206/16a	30	949.64757	Yes	No	No	No	No
206/16b	28	934.09368	Yes	No	No	No	No
206/17	28	930.02638	Yes	No	No	No	No
206/21	28	916.9029	Yes	No	No	No	No
206/5a	30	972.56109	Yes	No	No	No	No
208/11	30	1040.7648	Yes	No	No	No	No
208/14	30	1032.7966	Yes	No	No	No	No
208/18c	30	1028.0771	Yes	No	No	No	No
208/19b	30	1025.5317	Yes	No	No	No	No
208/1c	30	1077.4775	Yes	No	No	No	No
208/6	30	1058.6704	Yes	No	No	No	No
21/10c	30	588.48573	Yes	No	No	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
21/14a	30	579.50521	Yes	No	No	No	No
21/14b	28	572.18374	Yes	No	No	No	No
21/15	30	570.15313	Yes	No	No	No	No
21/19c	28	564.41016	Yes	No	No	No	No
21/1b	30	618.50206	Yes	No	No	No	No
21/1d	28	615.99242	Yes	No	No	No	No
21/20b	28	564.33901	Yes	No	No	No	No
21/22a	29	542.08779	Yes	No	No	No	No
21/24b	28	539.36991	Yes	No	No	No	No
21/25c	28	534.7714	Yes	No	No	No	No
21/26a	29	527.20176	Yes	No	No	No	No
21/27a	28	528.20125	Yes	No	No	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
21/27b	29	525.6011	Yes	No	No	No	No
21/28a	29	526.67876	Yes	No	No	No	No
21/28b	30	535.75795	Yes	No	No	No	No
21/28c	30	521.26404	Yes	No	No	No	No
21/2b	28	613.31454	Yes	No	No	No	No
21/2d	30	619.03092	Yes	No	No	No	No
21/3c	30	610.91101	Yes	No	No	No	No
21/3d	30	621.84255	Yes	No	No	No	No
21/4b	30	608.7424	Yes	No	No	No	No
21/4c	30	610.13835	Yes	No	No	No	No
21/5b	30	606.83275	Yes	No	No	No	No
21/6a	30	599.05396	Yes	No	No	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
21/8b	28	593.91086	Yes	No	No	No	No
21/9c	30	590.46361	Yes	No	No	No	No
210/10	29	1031.0387	Yes	No	No	No	No
210/19	30	995.13379	Yes	No	No	No	No
210/20a	30	994.16172	Yes	No	No	No	No
210/24d	30	976.66599	Yes	No	No	No	No
210/24e	30	980.42024	Yes	No	No	No	No
210/25b	30	975.58613	Yes	No	No	No	No
210/30c	28	968.41347	Yes	No	No	No	No
210/4a	29	1050.524	Yes	No	No	No	No
210/5a	29	1050.1812	Yes	No	No	No	No
210/5b	29	1049.5409	Yes	No	No	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
210/9a	29	1032.0447	Yes	No	No	No	No
211/1	28	1048.6941	Yes	No	No	No	No
211/22d	30	973.87568	Yes	No	No	No	No
211/27f	30	955.34385	Yes	No	No	No	No
211/28a	30	955.19131	Yes	No	No	No	No
211/29f	30	954.20764	Yes	No	No	No	No
211/2a	28	1051.9123	Yes	No	No	No	No
211/2b	28	1047.984	Yes	No	No	No	No
211/30c	30	968.95031	Yes	No	No	No	No
211/3a	28	1059.0481	Yes	No	No	No	No
211/3b	28	1047.7156	Yes	No	No	No	No
211/6	28	1030.1722	Yes	No	No	No	No

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Spatial Area Screened in for							
Block	Round	Distance to EA1N (km)	HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
211/7b	28	1030.0413	Yes	No	No	No	No
213/19a	28	1045.7167	Yes	No	No	No	No
213/20c	28	1041.9142	Yes	No	No	No	No
213/23	28	1032.4324	Yes	No	No	No	No
213/24	28	1028.4184	Yes	No	No	No	No
213/25b	28	1024.5317	Yes	No	No	No	No
214/10b	30	1061.5272	Yes	No	No	No	No
214/14a	30	1053.8058	Yes	No	No	No	No
214/15a	30	1043.6481	Yes	No	No	No	No
214/16b	28	1038.2382	Yes	No	No	No	No
214/4b	30	1082.3139	Yes	No	No	No	No
214/5c	30	1079.3545	Yes	No	No	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
214/9b	30	1064.5121	Yes	No	No	No	No
22/10b	30	582.69508	Yes	No	No	No	No
22/11b	30	568.38269	Yes	No	No	No	No
22/12b	30	566.87523	Yes	No	No	No	No
22/12d	30	566.89486	Yes	No	No	No	No
22/12e	30	581.6533	Yes	No	No	No	No
22/13c	30	565.67226	Yes	No	No	No	No
22/13d	30	565.69187	Yes	No	No	No	No
22/14c	30	564.77556	Yes	No	No	No	No
22/15a	28	564.12774	Yes	No	No	No	No
22/15d	30	569.71151	Yes	No	No	No	No
22/16b	30	561.00825	Yes	No	No	No	No

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Block	Round	Spatial Area Screened in for					
		Distance to EA1N (km)	HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
22/17c	30	563.91976	Yes	No	No	No	No
22/18c	28	547.18615	Yes	No	No	No	No
22/18d	30	562.66607	Yes	No	No	No	No
22/19d	28	552.46858	Yes	No	No	No	No
22/19f	30	561.0709	Yes	No	No	No	No
22/1b	30	605.18454	Yes	No	No	No	No
22/21c	28	531.60931	Yes	No	No	No	No
22/22b	28	530.90337	Yes	No	No	No	No
22/24f	30	528.19066	Yes	No	No	No	No
22/24g	30	540.67883	Yes	No	No	No	No
22/24h	30	531.87216	Yes	No	No	No	No
22/25f	30	540.4854	Yes	No	No	No	No

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Spatial Area Screened in for							
Block	Round	Distance to EA1N (km)	HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
22/25g	30	527.58184	Yes	No	No	No	No
22/26d	28	524.26502	Yes	No	No	No	No
22/29d	30	509.44681	Yes	No	No	No	No
22/30d	30	512.2219	Yes	No	No	No	No
22/4b	30	601.82846	Yes	No	No	No	No
22/6b	30	589.57801	Yes	No	No	No	No
22/7b	30	594.57091	Yes	No	No	No	No
22/8a	30	584.16362	Yes	No	No	No	No
22/8b	30	595.26077	Yes	No	No	No	No
22/9b	30	583.78218	Yes	No	No	No	No
23/11b	30	563.83987	Yes	No	No	No	No
23/11c	30	563.82025	Yes	No	No	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
23/11d	28	567.76098	Yes	No	No	No	No
23/16e	30	560.10925	Yes	No	No	No	No
23/21b	30	526.6901	Yes	No	No	No	No
23/22b	30	526.61963	Yes	No	No	No	No
23/26e	30	508.13211	Yes	No	No	No	No
28/10a	30	490.85913	Yes	Yes	No	No	No
28/10b	30	478.74602	Yes	No	No	No	No
28/8b	30	485.12428	Yes	Yes	No	No	No
28/9b	30	484.62849	Yes	Yes	No	No	No
28/9c	30	482.38652	Yes	Yes	No	No	No
28/9d	30	495.25298	Yes	Yes	No	No	No
29/10d	28	478.83213	Yes	Yes	No	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
29/1e	30	494.92943	Yes	Yes	No	No	No
29/22b	29	419.66746	Yes	Yes	No	No	No
29/23b	29	417.98315	Yes	Yes	No	No	No
29/27	29	401.33429	Yes	Yes	No	No	No
29/28	29	399.56517	Yes	Yes	No	No	No
29/4e	28	491.01188	Yes	Yes	No	No	No
29/5e	30	489.97236	Yes	Yes	No	No	No
29/7b	30	483.30057	Yes	Yes	No	No	No
29/9b	28	472.18534	Yes	Yes	No	No	No
3/11a	28	904.29102	Yes	No	No	No	No
3/12a	29	910.84351	Yes	No	No	No	No
3/16a	29	889.49041	Yes	No	No	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
3/17a	29	881.48258	Yes	No	No	No	No
3/7c	29	918.25363	Yes	No	No	No	No
30/12c	30	452.38049	Yes	Yes	No	No	No
30/13c	30	452.39909	Yes	Yes	No	No	No
30/13e	30	456.2012	Yes	Yes	No	No	No
30/14b	30	452.96672	Yes	Yes	No	No	No
30/17h	30	446.82266	Yes	Yes	No	No	No
30/18c	30	446.8937	Yes	Yes	No	No	No
30/19c	30	434.39421	Yes	Yes	No	No	No
30/1a	30	493.28623	Yes	Yes	No	No	No
30/1b	28	489.55788	Yes	Yes	No	No	No
30/1d	30	504.40311	Yes	Yes	No	No	No

East Anglia ONE North Offshore Windfarm

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
30/1e	30	493.26914	Yes	Yes	No	No	No
30/20a	28	440.19123	Yes	Yes	Yes	No	No
30/2e	30	493.21531	Yes	Yes	No	No	No
30/2f	30	489.49964	Yes	Yes	No	No	No
30/3d	30	489.51669	Yes	Yes	No	No	No
30/7c	28	482.07734	Yes	Yes	No	No	No
35/24	29	346.78514	Yes	Yes	No	No	No
35/28	29	337.45301	Yes	Yes	No	No	No
35/29	29	330.712	Yes	Yes	No	No	No
35/30	29	324.36787	Yes	Yes	No	No	No
36/15a	29	353.03939	Yes	Yes	No	No	No
36/20	29	335.09511	Yes	Yes	No	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
36/21	29	335.15526	Yes	Yes	No	No	No
36/24	29	320.98917	Yes	Yes	No	No	No
36/25	29	317.22154	Yes	Yes	No	No	No
36/26	29	318.44442	Yes	Yes	No	No	No
36/27	29	312.96556	Yes	Yes	No	No	No
36/28	29	307.95508	Yes	Yes	No	No	No
36/29	29	303.43622	Yes	Yes	No	No	No
37/11a	29	350.1374	Yes	Yes	No	No	No
37/16	29	332.02351	Yes	Yes	No	No	No
37/17	29	328.25808	Yes	Yes	Yes	No	No
37/18	29	326.05599	Yes	Yes	Yes	No	No
37/19	29	324.37179	Yes	Yes	Yes	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
37/21	29	313.96161	Yes	Yes	Yes	No	No
37/22a	29	310.07538	Yes	Yes	Yes	No	No
37/22b	29	322.79878	Yes	Yes	Yes	No	No
37/23a	29	307.7335	Yes	Yes	Yes	No	No
37/23b	29	316.89131	Yes	Yes	Yes	No	No
37/24	29	305.94104	Yes	Yes	Yes	No	No
37/26	28	295.00846	Yes	Yes	Yes	No	No
37/27	28	291.93995	Yes	Yes	Yes	No	No
37/28b	29	290.20977	Yes	Yes	Yes	No	No
37/29b	29	302.25676	Yes	Yes	Yes	No	No
38/27	29	285.39047	Yes	Yes	Yes	No	No
38/28	29	285.39047	Yes	Yes	Yes	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
41/10a	28	295.49629	Yes	Yes	No	No	No
41/24	28	255.44302	Yes	Yes	No	No	No
41/3	29	322.0126	Yes	Yes	No	No	No
41/4	29	314.91196	Yes	Yes	No	No	No
41/5a	28	308.21518	Yes	Yes	No	No	No
41/9	29	299.42817	Yes	Yes	No	No	No
42/10b	28	263.51901	Yes	Yes	Yes	No	No
42/11	28	269.76299	Yes	Yes	No	No	No
42/12b	28	263.15153	Yes	Yes	Yes	No	No
42/14	30	251.65146	Yes	Yes	Yes	Yes	No
42/15b	30	246.74721	Yes	Yes	Yes	Yes	No
42/19	28	234.51684	Yes	Yes	Yes	No	No

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Spatial Area Screened in for							
Block	Round	Distance to EA1N (km)	HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
42/1a	28	307.12545	Yes	Yes	No	No	No
42/20a	30	229.49477	Yes	Yes	Yes	Yes	No
42/20b	28	231.69963	Yes	Yes	Yes	No	No
42/28c	28	218.37356	Yes	Yes	Yes	No	No
42/29c	28	201.92039	Yes	Yes	Yes	No	No
42/30c	28	198.12646	Yes	Yes	Yes	No	No
42/30d	30	205.72252	Yes	Yes	Yes	Yes	No
42/6	28	285.69295	Yes	Yes	No	No	No
43/10	30	249.24508	Yes	Yes	Yes	Yes	No
43/11	28	241.72515	Yes	Yes	Yes	Yes	No
43/14a	30	232.42022	Yes	Yes	Yes	Yes	No
43/14b	30	233.93456	Yes	Yes	Yes	Yes	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
43/15	30	230.77539	Yes	Yes	Yes	Yes	No
43/16	30	224.87289	Yes	Yes	Yes	Yes	No
43/17a	30	220.95676	Yes	Yes	Yes	Yes	No
43/20c	28	212.31348	Yes	Yes	Yes	Yes	No
43/22b	28	202.41108	Yes	Yes	Yes	Yes	No
43/23	30	199.70306	Yes	Yes	Yes	Yes	No
43/24b	30	195.86548	Yes	Yes	Yes	Yes	No
43/26c	30	202.61745	Yes	Yes	Yes	Yes	No
43/7	30	256.85422	Yes	Yes	Yes	Yes	No
43/8	30	252.98066	Yes	Yes	Yes	Yes	No
44/11d	30	229.8789	Yes	Yes	Yes	Yes	No
44/12d	30	244.55917	Yes	Yes	Yes	Yes	No

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Spatial Area Screened in for							
Block	Round	Distance to EA1N (km)	HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
44/12e	30	229.74753	Yes	Yes	Yes	Yes	No
44/18c	28	213.18304	Yes	Yes	Yes	No	No
44/2	29	266.83924	Yes	Yes	Yes	No	No
44/27	28	174.09858	Yes	Yes	Yes	No	No
44/3a	29	266.83924	Yes	Yes	Yes	No	No
44/6	30	248.41861	Yes	Yes	Yes	Yes	No
44/7	30	248.29754	Yes	Yes	Yes	No	No
44/8b	30	248.29754	Yes	Yes	Yes	Yes	No
47/10c	30	163.35789	Yes	Yes	Yes	No	No
47/10d	30	163.36335	Yes	Yes	Yes	Yes	No
47/14e	28	169.8564	Yes	Yes	Yes	No	No
47/15d	30	158.68651	Yes	Yes	Yes	No	No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for					Included in Summer cSAC	Included in winter cSAC
			HP MU	GS MU	HS MU				
47/2d	30	202.38224	Yes	Yes	Yes		No		Yes
47/3f	30	196.88926	Yes	Yes	Yes		Yes		Yes
47/5e	28	188.98697	Yes	Yes	Yes		Yes		No
47/7a	30	196.0076	Yes	Yes	Yes		No		Yes
47/8d	30	191.06484	Yes	Yes	Yes		No		Yes
47/9d	28	170.81865	Yes	Yes	Yes		Yes		Yes
48/11c	30	145.37526	Yes	Yes	Yes		Yes		No
48/12b	30	140.49236	Yes	Yes	Yes		Yes		No
48/1b	28	173.02899	Yes	Yes	Yes		Yes		No
48/20c	30	103.45025	Yes	Yes	Yes		Yes		No
48/22c	28	111.21884	Yes	Yes	Yes		No		No
48/24a	30	89.327279	Yes	Yes	Yes		Yes		No

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
48/2b	28	167.59037	Yes	Yes	Yes	Yes	No
48/3	28	163.07127	Yes	Yes	Yes	Yes	No
48/6c	30	164.79228	Yes	Yes	Yes	Yes	No
48/8b	30	146.1712	Yes	Yes	Yes	Yes	No
49/29c	28	71.751209	Yes	Yes	Yes	No	No
49/30b	28	74.274026	Yes	Yes	Yes	No	No
50/26a	28	72.997823	Yes	Yes	Yes	Yes	No
53/13a	30	17.056719	Yes	Yes	Yes	Yes	Yes
53/14b	30	7.9110724	Yes	Yes	Yes	Yes	Yes
53/1b	30	45.126911	Yes	Yes	Yes	Yes	Yes
53/8a	30	26.29229	Yes	Yes	Yes	Yes	Yes
53/9a	30	26.29229	Yes	Yes	Yes	Yes	Yes

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Block	Round	Distance to EA1N (km)	Spatial Area Screened in for				
			HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
54/11b	28	36.699159	Yes	Yes	Yes	Yes	No
54/16	28	29.209523	Yes	Yes	Yes	Yes	No
54/6b	28	44.392414	Yes	Yes	Yes	Yes	No
8/28b	29	738.8131	Yes	No	No	No	No
9/10a	30	805.44076	Yes	No	No	No	No
9/11f	28	798.88778	Yes	No	No	No	No
9/11g	28	794.33009	Yes	No	No	No	No
9/13g	30	802.67145	Yes	No	No	No	No
9/14c	30	800.64777	Yes	No	No	No	No
9/14d	30	802.06324	Yes	No	No	No	No
9/15c	30	787.13197	Yes	No	No	No	No
9/15d	30	787.10413	Yes	No	No	No	No

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Spatial Area Screened in for							
Block	Round	Distance to EA1N (km)	HP MU	GS MU	HS MU	Included in Summer cSAC	Included in winter cSAC
9/15e	30	798.09897	Yes	No	No	No	No
9/17b	29	770.13103	Yes	No	No	No	No
9/18f	30	769.8555	Yes	No	No	No	No
9/22a	29	760.87986	Yes	No	No	No	No
9/23a	30	750.79008	Yes	No	No	No	No
9/24e	30	750.50763	Yes	No	No	No	No
9/26a	29	734.23637	Yes	No	No	No	No
9/28b	28	732.81096	Yes	No	No	No	No
9/9f	30	805.77311	Yes	No	No	No	No
9/9g	30	806.20889	Yes	No	No	No	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 ONE North 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 ONE North 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, 14 tier 2 projects were identified, and in addition, one tier 3 project, four tier 4 projects, and 17 tier 5 projects were also included in the CIA. For grey seal, 13 tier 2 projects and an additional one tier 3, two tier 4 and 13 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.).
48. 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**).
49. Therefore, taking into account the distances from East Anglia ONE North, 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 ONE North construction, operation or decommissioning phases.

Project	Landfall Locations	Distance to EA1N (km)	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)	42.9	10 inch GAS pipeline	2	Yes	Yes	Yes	Yes	No
PL2237 - SATURN TO MIMAS	Blocks 48/09 & 49/11b (Norfolk Banks)	42.9	3 inch CHEMICAL pipeline	2	Yes	Yes	Yes	Yes	No
PLU3122 - JULIET TO PICKERILL A UMBILICAL	Block 48/11 (Norfolk Banks)	140.6	138 mm MIXED HYDROCARBONS pipeline	2	Yes	Yes	Yes	No	No
PL3088 - CYGNUS TO ETS GAS PIPELINE	Block 44/11a & 44/12a (South Dogger Bank)	64.0	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)	64.0	12 inch GAS pipeline	2	Yes	Yes	Yes	Yes	No
PL2894 - KATY TO KELVIN GAS EXPORT PIPELINE	Block 44/19b (South Dogger Bank)	215.4	10 inch GAS pipeline	2	Yes	Yes	Yes	Yes	No

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Project	Landfall Locations	Distance to EA1N (km)	Type Cable or Pipeline	Tier	Spatial Area Screened in for				
					HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
PL2895 - KELVIN TO KATY METHANOL PIPELINE	Block 44/19b (South Dogger Bank)	215.4	2 inch METHANOL pipeline	2	Yes	Yes	Yes	Yes	No
PL3121 - JULIET TO PICKERILL A GAS PIPELINE	Block 48/11 (Norfolk Banks)	140.6	12 inch MIXED HYDROCARBONS pipeline	2	Yes	Yes	Yes	No	No
Caithness Moray	Noss Head - Tannachy	737.5	HVDC 1,200 MW	2	Yes	No	No	No	No
COBRAcable	Eemshaven, Netherlands - Endrup, 6740, Denmark	337.7	HVDC 700MW	2	Yes	Yes	Yes	No	No
Nemo Link	Pegwell Bay - Zeebrugge	129.97	HVDC 1,000MW	2	Yes	Yes	Yes	No	No
Nordlink	Büsum, Germany - Ertsmyra, Norway	479.3	HVDC 1,400MW	2	Yes	Yes	Yes	No	No
ElecLink	Folkestone - Les Mandarins, France	156.5	HVDC 1,000MW	2	Yes	Yes	Yes	No	No

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Project	Landfall Locations	Distance to EA1N (km)	Type Cable or Pipeline	Tier	Spatial Area Screened in for					
					HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)	
North Sea Link	Hylsfjorden, Norway - Blyth, UK	374.2	HVDC 1,400MW	2	Yes	Yes	No	No	No	
Interconnexion France-Angleterre 2	Merville, France - Monks Hill Beach, UK	158.0	HVDC 1,000MW	3	Yes	Yes	Yes	No	No	
VikingLink Corridor	Lincolnshire Coast, UK to Southern Jutland, Denmark	107.4	Proposed High voltage (up to 500 kV) Direct Current (DC) electricity interconnector	4	Yes	Yes	Yes	Yes	Yes	
AQUIND Interconnector	Portsmouth, UK - Le Havre, France	325.2	HVDC 2,000MW	4	Yes	No	No	No	No	
Atlantic Super Connection	UK to Iceland	812.5	HVDC 1,000MW	4	Yes	No	No	No	No	
Gridlink	Kingsnorth, UK to Dunkerque, France	157.7	HVDC 1,400MW	4	Yes	Yes	Yes	No	No	
Goldeneye to St. Fergus	Peterhead - Peterhead CCS (Shell and SSE)	599.0	CSS pipeline	5	Yes	Yes	No	No	No	

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Project	Landfall Locations	Distance to EA1N (km)	Type Cable or Pipeline	Tier	Spatial Area Screened in for				
					HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
Elgood (subsea) to Blythe (NUI)	Elgood (subsea) (48/22c) - Blythe (NUI) (48/22b & 48/23a)	103.1	10 inch proposed GAS pipeline operated by Independent Oil and Gas Ltd	5	Yes	Yes	Yes	No	No
Blythe (NUI) to PL370	Blythe (NUI) (48/22b & 48/23a)	103.1	10 inch proposed GAS pipeline operated by Independent Oil and Gas Ltd	5	Yes	Yes	Yes	No	No
Vulcan NW (NUI) to Vulcan S (NUI)	(48/22b & 48/23a)	103.1	10 inch proposed GAS pipeline operated by Independent Oil and Gas Ltd	5	Yes	Yes	Yes	Yes	No
Vulcan E (subsea) to Vulcan S (NUI)	(48/22b & 48/23a)	103.1	10 inch proposed GAS pipeline operated by Independent Oil and Gas Ltd	5	Yes	Yes	Yes	Yes	No
Vulcan S (NUI) to PL370 1	(48/22b & 48/23a)	103.1	10 inch proposed GAS pipeline operated by	5	Yes	Yes	Yes	Yes	No

East Anglia ONE North Offshore Windfarm

Preliminary Environmental information Report

Project	Landfall Locations	Distance to EA1N (km)	Type Cable or Pipeline	Tier	Spatial Area Screened in for				
					HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)
			Independent Oil and Gas Ltd						
Vulcan S (NUI) to PL370 2	(48/22b & 48/23a)	103.1	10 inch proposed GAS pipeline operated by Independent Oil and Gas Ltd	5	Yes	Yes	Yes	Yes	No
Shetland HVDC Link	Noss Head - Weisdale Voe	869.9	HVDC 600MW	5	Yes	No	No	No	No
Channel Cable	Paluel, France - Ninfield UK	233.3	HVDC 1,400MW	5	Yes	Yes	Yes	No	No
Eastern HVDC Link	Peterhead - Hawthorn	602.3	HVDC 2,000MW	5	Yes	Yes	No	No	No
NorthConnect	Peterhead, UK - Simadalen, Norway	611.9	HVDC 1,400MW	5	Yes	Yes	No	No	No
NorGer	Flekkefjord, Norway - Mooriem, Germany	442.9	HVDC 1,400MW	5	Yes	Yes	Yes	No	No

East Anglia ONE North Offshore Windfarm

Preliminary Environmental information Report

Project	Landfall Locations	Distance to EA1N (km)	Type Cable or Pipeline	Tier	Spatial Area Screened in for					
					HP MU	GS MU	HS MU	SNS cSAC/SCI (Summer)	SNS cSAC/SCI (Winter)	
Maali	Kergord, Shetland, UK - Bergen-Mongstad, Norway	877.8	HVDC 600MW	5	Yes	No	No	No	No	
COBRA 2	Denmark - Germany	394.0	HVDC 700MW	5	Yes	Yes	Yes	No	No	
Orkney Caithness	Billa Croo, Orkney, UK - Dounreay	757.3	HVAC 220MW	5	Yes	No	No	No	No	
NeuConnect	Greystones, UK - Conneforde, Germany	65.0	HVDC 1,400MW	5	Yes	Yes	Yes	No	No	
Nautilus (Nemo 2)	Leiston, UK - Belgium	34.0	HVDC 1,400MW	5	Yes	No	No	No	No	
UK-Netherlands 2	UK - Netherlands	Unknown	HVDC 2,000MW	5	Yes	Yes	Yes	No	No	

11.9 Carbon Capture Projects

50. Carbon capture projects considered in the CIA screening were tier 1-3 for UK based projects. All European projects were screened out.
51. 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

52. **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	12	24	49	11	18	35	10	15	31
European Offshore Windfarms	9	38	69	1	3	4	1	3	4
Wave and Tidal Projects	0	19	19	0	0	0	0	0	0

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
Aiolos	Germany	0	Cancelled	Yes	Yes	Yes
Albatros	Germany	3	Construction	Yes	No	No
Alpha Ventus	Germany	1	Commissioned	Yes	Yes	Yes
Amrumbank West	Germany	1	Commissioned	Yes	Yes	Yes
Apollon	Germany	4	Consent Application Submitted	Yes	No	No
AreaC I	Germany	5	Dormant	Yes	Yes	Yes
AreaC II	Germany	5	Dormant	Yes	Yes	Yes
AreaC III	Germany	5	Dormant	Yes	Yes	Yes
Atlantis I	Germany	0	Cancelled	Yes	Yes	Yes
Atlantis II	Germany	5	Dormant	Yes	Yes	Yes
Atlantis III	Germany	5	Dormant	Yes	Yes	Yes
Austerngrund	Germany	5	Dormant	Yes	Yes	Yes
Auvær (Category B area)	Norway	5	Development Zone	No	No	No
Avedøre Holme	Denmark	1	Fully Commissioned	No	No	No
BARD Offshore 1	Germany	1	Commissioned	Yes	Yes	Yes
Beatrice	UK	1	Operational	Yes	No	No
Beatrice - demonstrator project	UK	2	Construction	Yes	No	No
Belwind 1	Belgium	1	Commissioned	Yes	Yes	Yes
Belwind 2 (zone 3, Bligh Bank)	Belgium	1	Commissioned	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
Belwind Alstom Haliade Demonstration	Belgium	1	Commissioned	Yes	Yes	Yes
Blight Power I	Germany	5	Dormant	Yes	Yes	Yes
Blight Power II	Germany	5	Dormant	Yes	Yes	Yes
Blyth	UK	1	Decommissioned	Yes	Yes	Yes
Blyth demonstration site (1) (NaREC)	UK	1	Operational	Yes	Yes	Yes
Blyth demonstration site (2) (NaREC)	UK	1	Operational	Yes	Yes	No
Blyth demonstration site (3A & 4) (NaREC)	UK	3	Consented	Yes	Yes	No
Borkum Riffgrund I	Germany	1	Commissioned	Yes	Yes	Yes
Borkum Riffgrund II	Germany	3	Pre-Construction	Yes	Yes	Yes
Borkum Riffgrund West I	Germany	3	Consented	Yes	Yes	Yes
Borkum Riffgrund West II	Germany	3	Consented	Yes	Yes	Yes
Borssele I and II	Netherlands	3	Consented	Yes	Yes	Yes
Borssele III and IV	Netherlands	3	Consented	Yes	Yes	Yes
Borssele Site V - Leeghwater - Innovation Plot	Netherlands	3	Consented	Yes	Yes	Yes
Buitengaats	Netherlands	1	Construction	Yes	No	No
Burbo Bank	UK	1	Operational	Yes	Yes	Yes
Burbo Bank Extension	UK	1	Operational	Yes	Yes	Yes
Butendiek (Offshore-Bürger- windpark)	Germany	1	Commissioned	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
Callantsoog Noord	Netherlands	0	Failed to gain consent	Yes	Yes	Yes
Clearcamp	Netherlands	5	Dormant	Yes	Yes	Yes
Concordia I	Germany	5	Dormant	Yes	Yes	Yes
Concordia II	Germany	5	Dormant	Yes	Yes	Yes
Dan Tysk	Germany	1	Commissioned	Yes	Yes	Yes
Delta Nordsee 1	Germany	3	Consented	Yes	Yes	Yes
Delta Nordsee 2 (OWP Delta Nordsee 2)	Germany	3	Consented	Yes	Yes	Yes
Den Haag I	Netherlands	5	Failed to gain consent	Yes	Yes	Yes
Den Haag II	Netherlands	5	Failed to gain consent	Yes	Yes	Yes
Deutsche Bucht	Germany	3	Consented	Yes	Yes	Yes
Diamant	Germany	5	Dormant	Yes	Yes	Yes
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
Sofia	UK	3	Consented	Yes	Yes	Yes
Dogger Bank Zone Teesside C	UK	0	Cancelled	Yes	Yes	Yes
Dogger Bank Zone Teesside D	UK	0	Cancelled	Yes	Yes	Yes
Dounreay Ti	UK	3	Pre-construction	Yes	No	No
Dudgeon	UK	1	Operational	Yes	Yes	Yes
East Anglia ONE North	UK	5	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
East Anglia FOUR	UK	0	Withdrawn			
East Anglia ONE	UK	2	Construction	Yes	Yes	Yes
East Anglia THREE	UK	3	Consented	Yes	Yes	Yes
East Anglia TWO	UK	5	Planning	Yes	Yes	Yes
Egmond aan Zee (aka OWEZ)	Netherlands	1	Commissioned	Yes	Yes	Yes
EnBW Baltic 1	Germany	1	Commissioned	Yes	Yes	Yes
EnBW Baltic 2	Germany	1	Commissioned	Yes	Yes	Yes
EnBW He Dreiht	Germany	3	Consented	Yes	Yes	Yes
EnBW Hohe See (Hochsee Windpark 'Nordsee')	Germany	3	Consented	Yes	Yes	Yes
Eneco Luchterduinen	Netherlands	1	Commissioned	Yes	Yes	Yes
ENOVA Ems Emden	Germany	1	Commissioned	Yes	Yes	Yes
ENOVA NSWP 10	Germany	5	Dormant	Yes	Yes	Yes
ENOVA NSWP 11	Germany	5	Dormant	Yes	Yes	Yes
ENOVA NSWP 12	Germany	5	Dormant	Yes	Yes	Yes
ENOVA NSWP 13	Germany	5	Dormant	Yes	Yes	Yes
ENOVA NSWP 14	Germany	5	Dormant	Yes	Yes	Yes
ENOVA NSWP 15	Germany	5	Dormant	Yes	Yes	Yes
ENOVA NSWP 8	Germany	5	Dormant	Yes	Yes	Yes
ENOVA NSWP 9	Germany	5	Dormant	Yes	Yes	Yes
Eoliennes des Hautes Falaises	France	4	Application submitted	Yes	No	No
Eoliennes du Calvados	France	4	Application submitted	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
Euklas	Germany	5	Dormant	Yes	Yes	Yes
European Offshore Wind Deployment Centre EOWDC (Aberdeen Demonstration)	UK	2	Construction	Yes	No	No
Firth of Forth Phase 1 Seagreen Alpha	UK	3	Consented	Yes	No	No
Firth of Forth Phase 1 Seagreen Bravo	UK	3	Consented	Yes	No	No
Firth of Forth Phase 2 Delta	UK	5	Concept & Early Planning	Yes	No	No
Firth of Forth Phase 2 Echo	UK	5	Concept & Early Planning	Yes	No	No
Firth of Forth Phase 3 Foxtrot	UK	5	Concept & Early Planning	Yes	No	No
Firth of Forth Phase 3 Golf	UK	5	Concept & Early Planning	Yes	No	No
Firth of Forth Seagreen Phase 2 Charlie	UK	5	Concept & Early Planning	Yes	No	No
ForthWind Offshore Wind Demo Project (2-B Energy Test Site)	UK	5	On hold	Yes	No	No
Frøyabanken (Category B area)	Norway	5	Development Zone	No	No	No
Frøyagrunnene (Category A area)	Norway	5	Development Zone	Yes	No	No
Future Commercial Floating Tenders	France	5	Development Zone	Yes	Yes	Yes
Future Fixed-Bottom Tenders	France	5	Development Zone	Yes	Yes	Yes
GAIA I	Germany	5	Dormant	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
GAIA II	Germany	5	Dormant	Yes	Yes	Yes
GAIA III	Germany	5	Dormant	Yes	Yes	Yes
GAIA IV	Germany	5	Dormant	Yes	Yes	Yes
GAIA V	Germany	5	Dormant	Yes	Yes	Yes
Galloper	UK	1	Operational	Yes	Yes	Yes
Gannet	Germany	5	Dormant	Yes	Yes	Yes
Gemini	Netherlands	1	Construction (partial operation)	Yes	Yes	Yes
GICON SOF (test turbine)	Germany	3	Pre-construction	Yes	Yes	Yes
Global Tech I	Germany	1	Commissioned	Yes	Yes	Yes
Global Tech II	Germany	0	Cancelled	Yes	Yes	Yes
Global Tech III	Germany	0	Cancelled	Yes	No	No
Gode Wind 03	Germany	3	Consented	Yes	Yes	Yes
Gode Wind 04	Germany	3	Consented	Yes	Yes	Yes
Gode Wind 1 and 2	Germany	1	Construction	Yes	Yes	Yes
Greater Gabbard	UK	1	Operational	Yes	Yes	Yes
Gunfleet Sands 3 (Demo Zone)	UK	1	Operational	Yes	Yes	Yes
Gunfleet Sands I	UK	1	Operational	Yes	Yes	Yes
Gwind - Spinwind 1	Norway		Decommissioned	Yes	No	No
Gwind - Spinwind 2	Norway	5	Concept/Early Planning	Yes	No	No
H2-20	Germany	5	Dormant	Yes	Yes	Yes
Hakefjorden - Vindplats Göteborg	Sweden	5	Failed Proposal	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
Haliade	Denmark	1	Commissioned	Yes	No	No
Havsul I	Norway	5	Dormant	No	No	No
Havsul II	Norway	5	Failed Proposal	No	No	No
Havsul IV	Norway	5	Failed Proposal	No	No	No
He dreiht II	Germany	0	Cancelled	Yes	Yes	Yes
Heron	Germany	5	Dormant	Yes	Yes	Yes
Hollandse Kust Noord Holland I	Netherlands	5	Tender 2019	Yes	Yes	Yes
Hollandse Kust Noord Holland II	Netherlands	5	Tender 2019	Yes	Yes	Yes
Hollandse Kust Zuid Holland I	Netherlands	3	Consented	Yes	Yes	Yes
Hollandse Kust Zuid Holland II	Netherlands	3	Consented	Yes	Yes	Yes
Hollandse Kust Zuid Holland III	Netherlands	5	Tender 2018	Yes	Yes	Yes
Hollandse Kust Zuid Holland IV	Netherlands	5	Tender 2018	Yes	Yes	Yes
Hooksiel	Germany	1	Decommisioned	Yes	Yes	Yes
Horizont I	Germany	5	Dormant	Yes	Yes	Yes
Horizont II	Germany	5	Dormant	Yes	Yes	Yes
Horizont III	Germany	5	Dormant	Yes	Yes	Yes
Horizont IV	Germany	5	Dormant	Yes	Yes	Yes
Horns Rev 1	Denmark	1	Commissioned	Yes	Yes	Yes
Horns Rev 2	Denmark	1	Commissioned	Yes	Yes	Yes
Horns Rev 3	Denmark	2	Construction	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
Horns Rev 4	Denmark	5	Development Zone	Yes	Yes	Yes
Horns Rev B HR5	Denmark	5	Development Zone	No	No	No
Horns Rev B HR6	Denmark	5	Development Zone	Yes	Yes	Yes
Horns Rev B HR7	Denmark	5	Development Zone	Yes	Yes	Yes
Horns Rev Reserved Area	Denmark	5	Development Zone	Yes	Yes	Yes
Hornsea Project Four	UK	5	Concept & Early Planning	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	5	Dormant	Yes	Yes	Yes
HTOD 2	Germany	5	Dormant	Yes	Yes	Yes
HTOD 3	Germany	5	Dormant	Yes	Yes	Yes
HTOD 4	Germany	5	Dormant	Yes	Yes	Yes
HTOD 5	Germany	5	Dormant	Yes	Yes	Yes
HTOD 6	Germany	5	Dormant	Yes	Yes	Yes
Humber Gateway	UK	1	Operational	Yes	Yes	Yes
Hywind - Metcentre	Norway	1	Fully Commissioned	Yes	No	No
Hywind 2 (NB project will not pile foundations)	UK	4	Application submitted	Yes	No	No
Hywind 2 Demonstration	UK	2	Construction	Yes	No	No
Hywind Pilot Park	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
Ideol/Atlantis Energy 1.5 Floating Project	UK	0	Cancelled	Yes	No	No
Ideol/Atlantis Energy 1.5 Floating Project - Phase One	UK	0	Cancelled	Yes	No	No
Ijmuiden	Netherlands	5	Development Zone	Yes	Yes	Yes
Inch Cape	UK	3	Consented	Yes	No	No
InFLOW (INDustrialization setup of a FLoating Offshore Wind turbine)	France	3	Consent Authorised	No	No	No
Inner Dowsing	UK	1	Operational	Yes	Yes	Yes
Irene Vorrink	Netherlands	1	Commissioned	Yes	Yes	Yes
Jammerbugt A J1	Denmark	5	Development Zone	Yes	No	No
Jammerbugt A J2	Denmark	5	Development Zone	Yes	No	No
Jammerbugt A J3	Denmark	5	Development Zone	Yes	No	No
Jammerbugt A J4	Denmark	5	Development Zone	Yes	No	No
Jammerbugt B J1	Denmark	5	Development Zone	Yes	No	No
Jammerbugt B J2	Denmark	5	Development Zone	Yes	No	No
Jammerbugt Reserved Area	Denmark	5	Development Zone	Yes	No	No
Jammerland Bugt	Denmark	4	Consent Application Submitted	No	No	No
Jules Verne	Germany	5	Dormant	Yes	Yes	Yes
Kaikas	Germany	5	Dormant	Yes	Yes	Yes
Karmoy Marine Energy Test Centre (Metcentre)	Norway	3	Consent Authorised	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
Kaskasi II	Germany	3	Consented	Yes	Yes	Yes
Kattegatt Offshore	Sweden	3	Consent Authorised	Yes	No	No
Kentish Flats	UK	1	Operational	Yes	Yes	Yes
Kentish Flats Extension	UK	1	Operational	Yes	Yes	Yes
Kincardine	UK	3	Consented	Yes	No	No
Kriegers Flak	Denmark	3	Consent Application Submitted	No	No	No
Kriegers Flak B K1	Denmark	5	Development Zone	No	No	No
Kriegers Flak Reserved Area	Denmark	5	Development Zone	No	No	No
Kvitsøy Wind Turbine Demonstration Area	Norway	3	Consent Authorised	Yes	No	No
Leeghwater - Turbine Demonstration Facility	Netherlands	3	Consent Authorised	Yes	No	No
Lely	Netherlands	1	Decommisioned	Yes	Yes	Yes
L'eolien en mer region Dunkerque	France	5	Development Zone	Yes	Yes	Yes
Levenmouth (Demo)	UK	1	Operational	Yes	No	No
Lincs	UK	1	Operational	Yes	Yes	Yes
London Array	UK	1	Operational	Yes	Yes	Yes
London Array phase 2	UK	0	Cancelled	Yes	Yes	Yes
Lynn	UK	1	Operational	Yes	Yes	Yes
Meerwind Ost Sud	Germany	1	Commissioned	Yes	Yes	Yes
Meerwind West	Germany	0	Dormant	Yes	Yes	Yes
MEG offshore 1	Germany	5	Consented but no grid allocation. Status of	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
			consent unknown and re-application possible.			
Mejflak	Denmark	4	Application submitted	No	No	No
Merkur	Germany	3	Construction	Yes	Yes	Yes
Mermaid	Belgium	3	Consented	Yes	Yes	Yes
Methil Demo Project	UK	1	Comissioned	Yes	No	No
Methil Samsung	UK	1	Commissioned	Yes	No	No
Middelgrunden	Denmark	1	Fully Commissioned	No	No	No
Ming Yang 6MW Demo - Metcentre	Norway	0	Cancelled	Yes	No	No
Moray Firth Eastern Development	UK	3	Consented	Yes	No	No
Moray Firth Western Development Area	UK	4	Planning submitted	Yes	No	No
Nautilus I	Germany	5	Dormant	Yes	Yes	Yes
Neart na Gaoithe	UK	3	Consented	Yes	No	No
Nemo	Germany	5	Dormant	Yes	Yes	Yes
Neptune I	Germany	5	Dormant	Yes	Yes	Yes
Neptune II	Germany	5	Dormant	Yes	Yes	Yes
Neptune III	Germany	5	Dormant	Yes	Yes	Yes
Nissum Bredning Vind	Denmark	1	Operational	Yes	No	No
Nobelwind	Belgium	1	Construction	Yes	Yes	Yes
Nord Øyan - Ytre Vikna (Category B area)	Norway	5	Development Zone	No	No	No
Nordergrunde	Germany	1	Commissioned	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
Norderland	Germany	5	Dormant	Yes	Yes	Yes
Nord-Holland boven Noordzeekanaal Potentiele Zoekgebieden	Netherlands	5	Development Zone	Yes	No	No
Nordlicher Grund	Germany	3	Consented	Yes	Yes	Yes
Nordlicher Grund Teil Sandbank	Germany	1	Operational	Yes	No	No
Nord-Ost Passat I	Germany	5	Dormant	Yes	Yes	Yes
Nord-Ost Passat II	Germany	5	Dormant	Yes	Yes	Yes
Nord-Ost Passat III	Germany	5	Dormant	Yes	Yes	Yes
Nordpassage	Germany	5	Dormant	Yes	Yes	Yes
Nordsee 2 (Innogy Nordsee II)	Germany	3	Consented	Yes	Yes	Yes
Nordsee 3 (Innogy Nordsee III)	Germany	3	Consented	Yes	Yes	Yes
Nordsee One (Innogy Nordsee I)	Germany	2	Construction	Yes	Yes	Yes
Nordsee Ost	Germany	1	Commissioned	Yes	Yes	Yes
Norfolk Boreas	UK	5	Planning	Yes	Yes	Yes
Norfolk Vanguard	UK	4	Application submitted	Yes	Yes	Yes
Norther	Belgium	3	Pre-Construction	Yes	Yes	Yes
Northwester 2	Belgium	3	Consented	Yes	Yes	Yes
Northwind	Belgium	1	Commissioned	Yes	Yes	Yes
Nysted	Denmark	1	Fully Commissioned	No	No	No
Okeanos	Netherlands	5	Failed to gain consent	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
Olderveggen (Category B area)	Norway	5	Development Zone	Yes	No	No
OWN1 (North of Orkney)	UK	6	Development Zone	Yes	No	No
OWN2 (East of Shetland)	UK	6	Development Zone	Yes	No	No
OWNE1 (East Coast Aberdeenshire)	UK	6	Development Zone	Yes	No	No
OWNE2 (North coast of Aberdeenshire)	UK	6	Development Zone	Yes	No	No
OWP Albatros Phase 1	Germany	3	Consented	Yes	Yes	Yes
OWP Albatros Phase 2	Germany	3	Consented	Yes	Yes	Yes
OWP West	Germany	3	Consented	Yes	Yes	Yes
P12	Netherlands	5	Failed to gain consent	Yes	Yes	Yes
Parc éolien en mer de Dieppe - Le Treport	France	4	Consent Application Submitted	Yes	No	No
Parc éolien en mer de Fécamp	France	4	Consent Application Submitted	Yes	No	No
Petrel	Germany	5	Dormant	Yes	Yes	Yes
Poseidon P60 - Mermaid	Belgium	5	Concept & Early Planning	Yes	Yes	Yes
Prinses Amalia Windpark (formerly Q7)	Netherlands	1	Commissioned	Yes	Yes	Yes
PROWIND 1	Germany	5	Dormant	Yes	Yes	Yes
PROWIND 2	Germany	5	Dormant	Yes	Yes	Yes
PROWIND 3	Germany	5	Dormant	Yes	Yes	Yes
Race Bank	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
Rampion (Southern Array)	UK	2	Construction	Yes	No	No
Rampion Wind Farm	UK	2	Construction	Yes	No	No
Rennesøy Wind Turbine Demonstration Area	Norway	3	Consent Authorised	Yes	No	No
RENTEL	Belgium	2	Construction	Yes	Yes	Yes
Riffgat	Germany	1	Commissioned	Yes	Yes	Yes
Rijnveld Noord	Netherlands	5	Failed to gain consent	Yes	Yes	Yes
Rijnveld Oost	Netherlands	5	Failed to gain consent	Yes	Yes	Yes
Rijnveld West	Netherlands	5	Failed to gain consent	Yes	Yes	Yes
Ringkøbing Fjord A RK1	Denmark	5	Development Zone	Yes	No	No
Ringkøbing Fjord A RK2	Denmark	5	Development Zone	Yes	No	No
Ringkøbing Fjord A RK3	Denmark	5	Development Zone	Yes	No	No
Ringkøbing Fjord A RK4	Denmark	5	Development Zone	Yes	No	No
Ringkøbing Fjord A RK5	Denmark	5	Development Zone	Yes	No	No
Ringkøbing Reserved Area	Denmark	5	Development Zone	Yes	No	No
Rønland (Nisum Bredning)	Denmark	1	Commissioned	Yes	No	No
Rotterdam Noord-West	Netherlands	5	Failed to gain consent	Yes	Yes	Yes
Samsø	Denmark	1	Commissioned	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
Sandbank	Germany	1	Construction (partial operation)	Yes	Yes	Yes
Sandbank Extension	Germany	0	Cancelled	Yes	Yes	Yes
Sandbank Plus	Germany	3	Consented	Yes	Yes	Yes
Scroby Sands	UK	1	Operational	Yes	Yes	Yes
Seagull	Germany	5	Dormant	Yes	Yes	Yes
SeaStar	Belgium	3	Consented	Yes	Yes	Yes
SeaStorm I	Germany	5	Dormant	Yes	Yes	Yes
SeaStorm II	Germany	5	Dormant	Yes	Yes	Yes
SeaTwirl 10MW	Sweden	5	Concept/Early Planning	Yes	No	No
SeaTwirl 1MW	Sweden	5	Concept/Early Planning	Yes	No	No
SeaTwirl 3MW	Sweden	5	Concept/Early Planning	Yes	No	No
SeaTwirl P3	Sweden	5	Decommissioned	Yes	No	No
SeaTwirl S1	Sweden	1	Fully Commissioned	Yes	No	No
SeaWind III	Germany	5	Dormant	Yes	Yes	Yes
SeaWind IV	Germany	5	Dormant	Yes	Yes	Yes
Sejerø Bugten	Denmark	5	Development Zone	No	No	No
SEM-REV - SITE D'EXPERIMENTATION EN MER - MARINE TEST SITE	France	1	Fully Commissioned	No	No	No
Sheringham Shoal	UK	1	Operational	Yes	Yes	Yes
Siragrunnen	Norway	5	Failed Proposal	Yes	No	No
Site 1 Southern Moray Firth	UK	6	Development Zone	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
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
Skottarevsprojektet	Sweden	5	Failed Proposal	No	No	No
Skua	Germany	5	Dormant	Yes	Yes	Yes
SØrlige Nordsjø I (Category A area)	Norway	5	Development Zone	Yes	No	No
SØrlige Nordsjø II (Category A area)	Norway	5	Development Zone	Yes	No	No
South Holland Coast Wind Farm Zone Phase II	Netherlands	5	Tender: 2018	Yes	No	No
Sprogø	Denmark	1	Fully Commissioned	No	No	No
Stadthavet (Category B area)	Norway	5	Development Zone	No	No	No
Stora Middelgrund	Sweden	3	Consent Authorised	No	No	No
Strom-Nord	Germany	0	Cancelled	Yes	Yes	Yes
SWAY 1:6 Prototype	Norway	5	Decommissioned	Yes	No	No
SWAY 2.6MW Test	Norway	0	Cancelled	Yes	No	No
Teesside	UK	1	Operational	Yes	Yes	Yes
Testområde Bukketjuvane	Norway	5	Dormant	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	Commissioned	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
Thornton Bank phase II	Belgium	1	Commissioned	Yes	Yes	Yes
Thornton Bank phase III	Belgium	1	Commissioned	Yes	Yes	Yes
TLPWIND UK	UK	5	Concept & Early Planning	Yes	No	No
Træna vest (Category B area)	Norway	5	Development Zone	Yes	No	No
Trænafjorden - Selvær (Category B area)	Norway	5	Development Zone	No	No	No
Trianel Windpark Borkum Phase 1 (Borkum West II phase 1)	Germany	1	Commissioned	Yes	Yes	Yes
Trianel Windpark Borkum Phase 2 (aka Borkum West II phase 2)	Germany	3	Consented	Yes	Yes	Yes
Triton Knoll phase 1-3	UK	3	Consented	Yes	Yes	Yes
TunØ Knob	Denmark	1	Commissioned	No	No	No
Utsira nord (Category A area)	Norway	5	Development Zone	Yes	No	No
Utsira Phase 1	Norway	5	Dormant	Yes	No	No
VannØya nordØst (Category B area)	Norway	5	Development Zone	No	No	No
Veja Mate	Germany	1	Commissioned	Yes	Yes	Yes
Vesterhav Nord	Denmark	3	Consented	Yes	No	No
Vesterhav Syd	Denmark	3	Consented	Yes	No	No
Voorde Hollandse kust Zoekgebieden	Netherlands	5	Development Zone	Yes	Yes	Yes
Walney Extension	UK	2	Construction	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
Westermeerwind	Netherlands	1	Commissioned	Yes	Yes	Yes
Westermest Rough	UK	1	Operational	Yes	Yes	Yes
WIN 2	France	0	Cancelled	Yes	No	No
Windpark Fryslân	Netherlands	4	Consent Application Submitted	Yes	Yes	Yes
WindSea AS Prototype	Norway	5	Concept/Early Planning	No	No	No
Witte Bank	Germany	5	Dormant	Yes	Yes	Yes
Zeeuws Offshore Wind Project	Netherlands	5	Pre-planning Application	Yes	No	No
Zuid-en Noord-Holland onder het Noordzeekanaal Potentiele Zoekgebieden	Netherlands	5	Development Zone	Yes	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	Pre-construction	3	N	N	N
Benera	Wave	Cancelled	3	N	N	N
Bluemull Sound	Tidal	Operational	1	Y	N	N
Brims tidal array (formerly Cantick Head)	Tidal	In development	5	Y	N	N
Brough Head (Aquamarine Power)	Wave	In development	5	Y	N	N
Cardiff Tidal Lagoon	Tidal	Application submitted	4	N	N	N
Costa Head	Wave	Cancelled	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 - Aquamarine Power Phase 2	Wave	Cancelled	0	Y	N	N
EMEC - Billia Croo	Wave	Operational	1	Y	N	N
EMEC Clean Energy From Ocean Waves (CEFOW) Phase 1	Wave	Consented	3	Y	N	N
EMEC Fall of Warness	Tidal	Decommissioned	0	Y	N	N
EMEC Flumill	Tidal	Decommissioned	0	Y	N	N
EMEC Laminaria	Wave	Consented	3	Y	N	N
EMEC Magallanes	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 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	Cancelled	0	Y	N	N
EMEC Scapa Flow (CorPower Ocean)	Wave	Operational	1	Y	N	N
EMEC Scotrenewables SR250	tidal	Decommissioned	0	Y	N	N
EMEC Scotrenewables SR2000	Tidal	Operational	1	Y	N	N
EMEC Seatricity	Wave	Operational	1	Y	N	N
EMEC Sustainable Marine Energy	Tidal	Construction	2	Y	N	N
EMEC Tocado Phase 2	Tidal	Consented	3	Y	N	N
EMEC Tocado Phase 1	tidal	Decommissioned	0	Y	N	N
EMEC Wello Oy	Wave	Operational	1	Y	N	N
EMEC Shapinsay Sound	Tidal	Operational	1	Y	N	N
Fabtest Fred Olsen	Wave	Complete	1	N	N	N
Fabtest OWEL	Wave	Pre-construction	3	N	N	N
Fair Head	Tidal	In development	5	N	N	N
Farr Point	Wave	Cancelled	0	N	N	N
Galson	Wave	Pre-construction	3	N	N	N
Harris Demo Zone	Wave	In development	5	N	N	N
Holyhead Deep	Tidal	Construction	5	N	N	N
Humber Pulse Tidal	Tidal	Decommissioned	0	Y	Y	Y

Project	Type	Status	Tier	In the MU / reference population area for harbour porpoise (HP), grey seal (GS) and harbour seal (HS)		
				HP	GS	HS
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
Islay Demo Zone	Tidal	In development	5	N	N	N
Lashy Sound (1 & 2)	Tidal	Pre-Scoping	5	Y	N	N
Marwick Head	Wave	Cancelled	0	Y	N	N
Minesto Strangford Loch	Tidal	Operational	1	N	N	N
Morlais	Tidal	In development	5	N	N	N
Mull of Galloway	Tidal	In development	5	N	N	N
Mull of Kintyre	Tidal	Pre-construction	3	N	N	N
Ness of Duncansby	Tidal	Pre-Scoping	5	Y	N	N
North Cornwall Demo Zone	Wave	In development	5	N	N	N
North Devon Demo Zone	Tidal	In development	5	N	N	N
North Yell	Tidal	Operational	1	Y	N	N
North-West Lewis	Wave	Pre-construction	3	N	N	N
Pendeen Array	Wave	In development	5	N	N	N
Perpetuus Tidal Energy Centre (PTEC)	Tidal	Consented	3	Y	N	N
Pontnahaven	Wave	Operational	1	N	N	N
Portland Bill Tidal Site	Tidal	In development	5	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
Ramsey Sound	Tidal	Operational	1	N	N	N
Sanda Sound	Tidal	Decommissioned	1	N	N	N
Scapa Flow	Wave	Operational	1	Y	N	N
Scilly Airport WEP	Wave	Application submitted	4	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
Seagen Brough Nesss	Tidal	In development	5	Y	N	N
Seagen Kyle Rhea	Tidal	On hold	5	N	N	N
Seagen Skerries	Tidal	On hold	5	N	N	N
Seagen Stragford Loch	Tidal	Decommissioned	1	N	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
Stronsay Firth	Tidal	In development	5	Y	N	N
Swansea Bay Tidal Lagoon	Tidal	ON HOLD	4	N	N	N
Torr Head	Tidal	In development	5	N	N	N
Wave Hub (Carnegie)	Wave	Consented	3	N	N	N
Wave Hub (Fortum)	Wave	In development	5	N	N	N
Wave Hub (Seatricity 1)	Wave	Operational	1	N	N	N
Wave Hub (Seatricity 2)	Wave	In development	5	N	N	N
Wave Hub (Simply Blue)	Wave	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
West Islay Tidal Energy Park	Tidal	Consented	3	N	N	N
West Orkney Middle South	Wave	Cancelled	0	Y	N	N
West Orkney South	Wave	In development	5	Y	N	N
Westray South	Tidal	Application in prep	5	Y	N	N