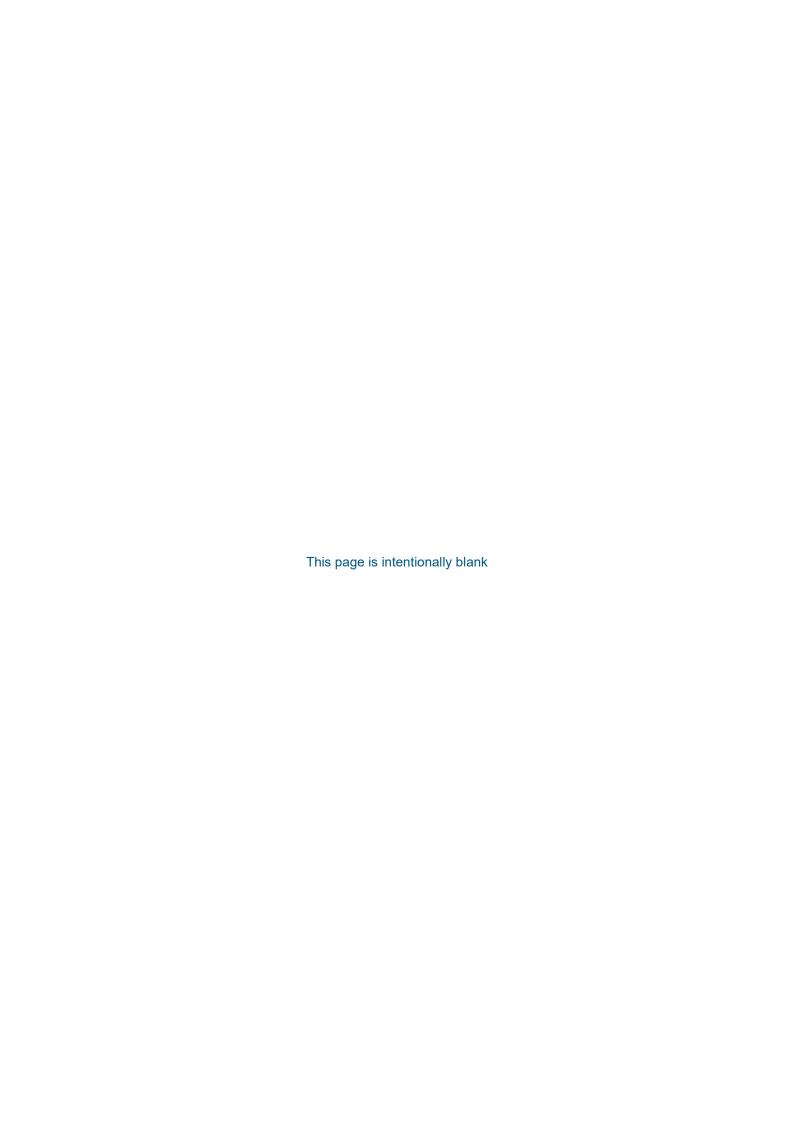


Technical Appendix 11.1 Marine Mammal Cumulative Impact Assessment Screening

Offshore EIA Report: Volume 2



REPORT

Green Volt Offshore Windfarm Environmental Impact Assessment

Appendix 11.1: Marine Mammal Cumulative Impact Assessment Screening

Client: Green Volt Offshore Windfarm Ltd

Reference: PC2483-RHD-ZZ-XX-RP-Z-0039

Status: Final/01

Date: 18 January 2023









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Document title: Green Volt Offshore Windfarm Environmental Impact Assessment

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Date: 18 January 2023

Project name: Green Volt Offshore Windfarm

Project number: PC2483

Classification

Project related

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Revision history

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1	20/06/2022	First draft	GS (Royal HaskoningDHV)	CM (Royal HaskoningDHV)	VC (Flotation Energy)
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3	18/11/2022	Final for submission	JL (Royal HaskoningDHV)	CM (Royal HaskoningDHV)	VC (Flotation Energy)





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Acronyms

Acronym Description

AWSD Atlantic white-sided dolphin

BEIS Department for Business, Energy & Industrial Strategy

BND Bottlenose dolphin

CCS Carbon Capture Storage

Cefas Centre for the Environment and Fisheries and Aquaculture Science

CES Coastal East Scotland

CGNS Celtic and Greater North Seas

CIA Cumulative Impact Assessment

dB Decibel

EaS East Scotland

EMODnet European Marine Observation and Data Network

ES Environmental Statement

EU European

GNS Greater North Sea

GS Grey seal

GV Green Volt

HP Harbour porpoise

HRA Habitats Regulation Assessment

HS Harbour sea;

HW Humpback whale

kHz Kilohertz

MMO Marine Management Organisation

MoF Moray Firth

Project related





MRE Marine Renewable Energy

MU Management Unit

MW Minke whale

N No

NSIP Nationally Significant Infrastructure Projects

NS North Sea

OWF Offshore wind farm

PTS Permanent Threshold Shift

RD Risso's dolphin

RMS Root Mean Square

RoC Review of Consents

SPL Sound Pressure Level

SAC Special Area of Conservation

TTS Temporary Threshold Shift

U Unknown

UK United Kingdom

UXO Unexploded Ordnance

WBD White-beaked dolphin

Y Yes





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APPENDIX 11.1: CUMULATIVE IMPACT ASSESSMENT SCREENING

Section 1. Process of Cumulative Impact Assessment Screening

- The Cumulative Impact Assessment (CIA) screening is a two-part process in which an initial long list of potential projects is identified with the potential to interact with the proposed Project based on the mechanism of interaction and spatial extent of the reference population for each marine mammal species. Following a tiered approach, the list of projects is then refined based on the level of information available, to determine the list of projects for further assessment.
- 2. The plans and projects screened into the CIA are:
 - Located in the marine mammal Management Unit (MU) population reference area (defined for individual species in the assessment sections)1;
 - Harbour porpoise (HP) Phocoena phocoena: North Sea (NS) MU;
 - Bottlenose dolphin (BND) Tursiops truncatus: Greater North Sea (GNS) and Coastal East Scotland (CES) MUs;
 - White-beaked dolphin (WBD) Lagenorhynchus albirostris: Celtic and Greater North Seas (CGNS) MU;
 - o Atlantic white-sided dolphin (AWSD) Lagenorhynchus acutus: CGNS MU;
 - o Risso's dolphin (RD) Grampus griseus: CGNS MU;
 - Minke whale (MW) Balaenoptera acutorostrata: CGNS MU;
 - Humpback whale (HW) Megaptera novaeangliae2;
 - Grey seal (GS) Halichoerus grypus: East Scotland (EaS) and Moray Firth (MoF) MUs; and
 - o Harbour seal (HS) Phoca vitulina: EaS and MoF MUs.
 - Offshore projects and developments, if there is the potential for cumulative impacts during the construction, operational or decommissioning of the proposed projects; and
- 3. Offshore wind farm (OWF) developments, if the construction and/or piling period could overlap with the proposed construction and/or piling period of the projects, based on best available information on when the developments are likely to be constructed and piling. The CIA considers projects, plans and activities which have sufficient information available to undertake the assessment. Insufficient information precludes a meaningful quantitative assessment, and it is not appropriate to make assumptions about the detail of future projects in such circumstances.
- 4. Given the fast-moving nature of offshore development, it is likely that new projects relevant to the assessment will arise throughout the pre-application period. In order to finalise an assessment, the latest information at time of writing has been used. For the marine mammal assessment, the different stages of project development, especially for other offshore wind farm projects have been considered within the CIA:
 - i. built and operational projects;
 - ii. projects under construction;
 - iii. projects that have been consented (but construction has not yet commenced);

¹ Note that, due to the large size of both the white-beaked dolphin and minke whale MUs, projects and plans were considered only if they are located within the North Sea / GNS MU area, in order to provide a more realistic while still precautionary list of projects that may impact the same population of each species.

² For humpback whale, only projects within Scottish waters have been included in the cumulative assessments, as their presence is considered rare in the southern North Sea.





- iv. projects that have an application submitted to the appropriate regulatory body that have not yet been determined;
- v. projects that the regulatory body are expecting to be submitted for determination (e.g. projects listed under the Planning Inspectorate programme of projects); and
- vi. projects that have been identified in relevant strategic plans or programmes.
- 5. Any plans or projects that were operational prior to the start of the baseline surveys (which began in May 2020) are not taken forward in the CIA, as they are considered to be part of the baseline environment.
- 6. A description of each project stage, and what it means for the CIA screening, as well as the project tiers considered in the CIA for marine mammals, are included in **Table 11-1**.

Table 1-1 Description of Project Stages for CIA Screening

Project Stage	Relevance for CIA Screening	Types of Projects Screened for Project Stage
Built and operational projects	All built and operational projects are considered to be part of the existing baseline environment if operational prior to the start of the baseline surveys in May 2020.	
Projects under construction	Projects under construction are likely to be commissioned prior to the construction of the Project, and therefore there is no potential for any overlap in the construction of these projects with the construction and piling of the Project.	United Kingdom (UK) and European (EU) projects: - Other OWFs
Projects that have been consented (but construction has not yet commenced)	Relevant marine infrastructure projects which have been consented, but for which construction has not yet commenced. Therefore, there is more certainty that these projects will be constructed compared to projects for which an application has not yet been determined. For these OWFs, there is also more information on when construction is likely to be undertaken and an assessment of the potential impacts during construction activities have been provided in the project Environmental Statements (ES), which allows quantified assessment of the potential impacts of these projects in the CIA. However, there is still significant uncertainty associated with these projects, for example, in terms of the scale of the final development that will be constructed, construction programme dates and the likely final impacts. In particular, OWFs aim to get consent for a maximum design scenario, based on the worst case parameters, and then these parameters are generally refined and reduced prior to construction. OWFs could have possible cumulative construction impacts.	- Marine Renewable Energy (MRE) developments (wave and tidal) UK projects only: - Aggregate extraction and dredging - Licenced disposal sites - Oil and gas development, operation and decommissioning, including seismic surveys - Planned construction of sub-sea cables and pipelines - Gas Storage - Offshore Mining - Carbon Capture Storage (CCS) activities - Unexploded ordnance (UXO) clearance
Projects that have an application submitted to the appropriate regulatory body that have not yet been determined	Relevant marine infrastructure projects which have an application submitted to the appropriate regulatory body but that have not yet been determined, or projects that are consented but currently on hold due to judicial challenge or appeal process. There is increased uncertainty about these projects, especially where the projects are currently on-hold, as to when or if they could be constructed and what changes could be made to the scale of the developments. OWFs could have possible cumulative construction impacts.	UK and EU projects: - Other OWFs UK projects only: - MRE developments (wave and tidal) - Oil and gas development, operation and decommissioning, including seismic surveys - Planned construction of sub-sea cables and pipelines - Gas Storage - Offshore Mining





Project Stage	Relevance for CIA Screening	Types of Projects Screened for Project Stage
		- CCS activities
Projects that the regulatory body are expecting to be submitted for determination (e.g., projects listed under the Planning Inspectorate programme of projects)	Relevant marine infrastructure projects that the regulatory body are expecting to be submitted for determination (e.g., projects listed under the Planning Inspectorate programme of projects). For these projects, there is a lot of uncertainty and not enough information to allow a robust assessment. However, as a very precautionary approach, the OWFs that we are currently aware of have been considered in the CIA. OWFs could have possible cumulative construction impacts.	UK and EU projects: - Other OWFs UK projects only: - MRE developments (wave and tidal) - Oil and gas development, operation and decommissioning, including seismic surveys - Planned construction of sub-sea cables and pipelines - Gas Storage - Offshore Mining - CCS activities
Projects that have been identified in relevant strategic plans or programmes	Very little information available to make a robust CIA.	None

- 7. The first stage of the screening is based on the widest possible range of offshore construction dates for the Project, of between 2026 and 2028, with impact piling of the OSP substructures in 2027. Offshore construction is anticipated to take approximately 18 months from February 2027 to June/July 2028, however, as a worst case it is assumed offshore construction could be up to three years.
- 8. A wide range of data sources and information was used for the CIA and CIA screening, including, but not limited to:
 - Green Volt Environmental Statement (ES);
 - 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);
 - Oil and gas environmental submissions and determinations (https://www.gov.uk/guidance/oil-and-gas-environmental-data);
 - Cefas website (e.g. http://data.cefas.co.uk/#/View/407);
 - Planning Inspectorate National Infrastructure Planning website;
 - The Marine Management Organisation (MMO) public register; and
 - European Marine Observation and Data Network (EMODnet) data.





Section 2. Screening out of Certain Industries and Activities

Section 2.1. Screening out of Underwater Noise from Operational Offshore Wind Turbines

- 9. The noise levels associated with operational OWFs (with fixed substructures) is relatively low, with recorded levels of between 141 and 146 dB re 1μPs-m (RMS SPL) at four UK OWFs (MMO, 2015; Cheesman *et al.*, 2016), and levels of 106 and 126 dB re 1μPa-m (RMS SPL) at three operational OWFs in Sweden and Denmark, which could not be audible for harbour porpoise at a distance of 70 m from the wind turbine location (Tougaard *et al.*, 2009). It has also been predicted that within a few hundred metres of a wind turbine, noise would be comparable to background noise levels (MMO, 2015). Due to the low noise levels associated with operational OWFs, the Department for Business, Energy & Industrial Strategy (BEIS) (2020) Review of Consents (RoC) Habitats Regulation Assessment (HRA) for the Southern North Sea Special Area of Conservation (SAC), concluded that there would be no potential for significant impact from the operation of OWFs, alongside the construction of OWFs (BEIS, 2020).
- 10. Therefore, operational OWFs are screened out from further consideration within the CIA screening.
- 11. The potential for cumulative impacts from underwater noise from operation wind turbines at the Project with other projects and activities has also been screened out from further consideration within the CIA screening.

Section 2.2. Screening out of Underwater Noise from the Maintenance Activities Associated with OWFs

- 12. Maintenance activities at OWFs, such as such as additional rock placement or cable re-burial, will be very localised, short in duration and temporary.
- 13. The potential for cumulative impacts from maintenance activities, including vessels at OWFs would be less than the cumulative impacts assessed for construction activities other than piling.
- 14. Therefore, maintenance of OWFs is screened out from further consideration within the CIA screening.

Section 2.3. Screening out of Underwater Noise from the Decommissioning Activities of with Offshore Wind Farms

- 15. There is currently no information on any OWFs that could be decommissioning during the construction of the Project. Therefore, **decommissioning of OWFs is screened out from further consideration within the CIA screening**.
- 16. The potential for cumulative impacts during the decommissioning of the Project are currently unknown. The potential impacts for the decommissioning of the Project including CIA will be assessed prior to any decommissioning activities. Therefore, the **decommissioning of Green Volt has also been screened out from further consideration within this CIA screening**.

Section 2.4. Screening out of Underwater Noise and Increase of Collision Risk due to Shipping and Navigation

17. Shipping is considered to part of the baseline environment. All shipping has been **screened out** from further consideration in the CIA.





Section 2.5. Screening out of Commercial Fishing

- 18. Commercial fisheries are scoped out of the CIA, as it is an ongoing activity that is considered to be part of the baseline environment. Further detail on the reasoning for this scoping decision has been provided below.
- 19. Commercial fisheries within the North Sea and underwater noise associated with fishing vessels, have the potential to cause a cumulative impact on marine mammals, through both the direct impact of by-catch and the indirect impact through the loss of marine mammal prey species (from commercial fisheries) and the disturbance from underwater noise (from vessel presence).
- 20. By-catch as a result of commercial fisheries is recognised as a historic and continuing cause of harbour porpoise mortality in the southern North Sea and will therefore be a factor in shaping the size of the current NS MU population. The available prey resource for harbour porpoise has also been influenced by historic and continuing commercial fishing. Noise from vessels is also considered to be part of the baseline conditions.
- 21. This approach is in accordance with the Planning Inspectorate (2019) Advice Note 17 Cumulative Effects Assessment, which states that:
 - "Where other projects are expected to be completed before construction of the proposed NSIP and the effects of those projects are fully determined, effects arising from them should be considered as part of the baseline".
- 22. Therefore, the **potential impacts from commercial fishing** (including by-catch and loss of prey species) and from the underwater noise associated with fishing vessels are considered to be a part of the environmental baseline for marine mammals of the North Sea, including for harbour porpoise, and **are screened out of further assessment**.

Section 3. CIA Screening for Marine Mammals

23. This appendix of the Green Volt offshore Environmental Impact Assessment (EIA) Report presents a screening of the major accidents and disasters with the potential to occur in relation to the Project, as well as descriptions of the processes and measures to be implemented to ensure no significant effects arise in the event of a major accident or disaster. Information on the project is provided in Appendix 5.1 Major Accidents and Disasters and sections of the following chapters of the offshore EIA Report are relevant:

Section 3.1. Screening of Other Offshore Wind Farms

Section 3.1.1. UK Offshore Wind Farms

- 24. UK based OWF projects were considered for the potential of construction cumulative impacts, if the construction phases could overlap with the construction phase of the Project, and sufficient information and certainty in OWF programmes allowed for a meaningful assessment. In addition, OWFs for which the applications are currently in preparation have also been considered, where this is sufficient information to inform an assessment.
- 25. Where possible, known dates of OWF construction are used to assess whether there is the potential for construction periods to overlap with the Project. Where construction dates of OWFs are not known, as a precautionary approach and to allow for any delays and changes in schedule, the potential for overlap with the proposed construction of the Project is based on a seven-year window in which construction could commence (although most projects have a five-year consent window). For UK projects where the application has been submitted, the possible construction windows were based on the best available information.





- 26. The initial screening process resulted in a list of 86 UK OWF projects within the relevant screening areas for harbour porpoise, bottlenose dolphin, white-beaked dolphin, Atlantic white-sided dolphin, Risso's dolphin, minke whale, grey seal and harbour seal. The results of this initial screening for UK OWFs are presented in **Table 11-2**.
- 27. OWFs were considered part of the baseline if they were operational at the time of the start of the site-specific surveys (May 2020). There were 26 operational UK OWF projects screened out at this stage. There are a further three operational OWFs that were not operational prior to the surveys commencing.
- 28. Out of the 20 UK OWF projects that are consented, or currently under construction, eight have the potential for the construction phase to overlap with construction of the Project:
 - East Anglia ONE North
 - East Anglia THREE
 - East Anglia TWO
 - Hornsea Project Three
 - Inch Cape
 - Norfolk Boreas
 - Norfolk Vanguard
 - Sofia (formerly Dogger Bank Teesside B)
- 29. Of the three UK OWF projects within submitted planning applications, all have the potential for overlapping construction phases with the Project:
 - Hornsea Project Four
 - Dudgeon Extension
 - Sheringham Shoal Extension
- 30. There are a total of 33 UK OWF projects in early development, with no submitted planning application. Of these, 20 have an unknown construction phase, while nine have the potential for the construction phase to overlap with construction of the Project, as listed below:
 - Aspen (floating)
 - Beech North (floating)
 - Beech South (floating)
 - Berwick Bank (Seagreen Charlie Delta Echo)
 - Dogger Bank South (East and West)
 - Ossian
 - Outer Dowsing
 - Pentland (floating)
 - Salamander (floating)

Project related





- 31. Of those OWFs with the potential for construction phase overlaps, eight have the potential for an overlap in piling windows (of 2027):
 - Hornsea Project Three
 - Norfolk Boreas
 - Norfolk Vanguard
 - Hornsea Project Four
 - Berwick Bank (Seagreen Charlie Delta Echo)
 - Dudgeon Extension
 - Outer Dowsing
 - Dogger Bank South (East and West)





Table 1-2 CIA Screening for all UK Offshore Wind Farm Projects within the Relevant Spatial Area for Each Species and Potential to Overlap with Green Volt (GV) Construction and Operation (Y = Yes, N = No)

		w	/ithin Ma	arine Ma	ımmal Sc	reening Ar	ea	Pro	oject Specific De	etail		Results of CI	A Screening	
Name of Project	Project stage	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MUMoF	Seal MU Eas	Date of Piling (if known)	Dates of Construction	Date of Operation	Operational prior to GV surveys?	Potential for Construction Phase overlap with GV Construction?	Potential for overlap of OWF operation with GV construction?	Potential for overlap of OWF operation with GV operation?
Aberdeen (EOWDC)	Operational	Υ	N	Υ	Υ	N	Υ	-	2017-2018	Jul-18	Yes	No	No	No
Beatrice	Operational	Υ	N	Υ	Υ	Υ	N	2017-2018	2017-2019	May-19	Yes	No	No	No
Blyth Offshore Demonstrator Project - Phase 1	Operational	Υ	Υ	N	Υ	N	N		2017-2018	Jun-18	Yes	No	No	No
Dudgeon	Operational	Υ	Υ	N	Υ	N	N	-	2016-2017	2017	Yes	No	No	No
East Anglia ONE	Operational	Υ	Υ	N	Υ	N	N	2018-2019	2018-2020	Jul-20	No	No	No	No
Galloper	Operational	Υ	Υ	N	Υ	N	N	-	2016-2018	Apr-18	Yes	No	No	No
Greater Gabbard	Operational	Υ	Υ	N	Υ	N	N	-	2008-2009	2009	Yes	No	No	No
Gunfleet Sands 3 (Demo Zone)	Operational	Υ	Υ	N	Υ	N	N	-	2012-2013	2013	Yes	No	No	No
Gunfleet Sands I	Operational	Υ	Υ	N	Υ	N	N	-	2008-2010	2010	Yes	No	No	No
Hornsea Project One	Operational	Υ	Υ	N	Υ	N	N	2017-2019	2017-2021	Dec-19	Yes	No	No	No
Humber Gateway	Operational	Υ	Υ	N	Υ	N	N	-	2013-2015	2015	Yes	No	No	No
Hywind Scotland Pilot Park	Operational	Υ	Υ	Y	Υ	N	Y	Floating	2016-2017	2017	Yes	No	No	No





		w	ithin Ma	arine Ma	ımmal Sc	reening Ar	ea	Pro	oject Specific De	etail		Results of CI	A Screening	
Name of Project	Project stage	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MUMoF	Seal MU Eas	Date of Piling (if known)	Dates of Construction	Date of Operation	Operational prior to GV surveys?	Potential for Construction Phase overlap with GV Construction?	Potential for overlap of OWF operation with GV construction?	Potential for overlap of OWF operation with GV operation?
Inner Dowsing	Operational	Υ	Υ	N	Υ	N	N	-	2007-2009	2009	Yes	No	No	No
Kentish Flats	Operational	Υ	Υ	N	Υ	N	N	-	2004-2005	2005	Yes	No	No	No
Kentish Flats Extension	Operational	Υ	Υ	N	Υ	N	N	-	2014-2015	2015	Yes	No	No	No
Kincardine - Phase 1	Operational	Υ	Υ	N	Υ	N	Υ	Floating		24/10/2018	Yes	No	No	No
Kincardine - Phase 2	Operational	Υ	Υ	N	Υ	N	Υ	2021 (not piling?	2020-2021	23/08/2021	No	No	No	No
Levenmouth (Demo)	Operational	Υ	N	Υ	Υ	N	Υ	-	2013	2013	Yes	No	No	No
Lincs	Operational	Υ	Υ	N	Υ	N	N	-	2011-2013	2013	Yes	No	No	No
London Array	Operational	Υ	Υ	N	Υ	N	N	-	2011-2013	2013	Yes	No	No	No
Lynn	Operational	Υ	Υ	N	Υ	N	N	-	2007-2008	2008	Yes	No	No	No
Race Bank	Operational	Υ	Υ	N	Υ	N	N	-	2016-2017	2017	Yes	No	No	No
Rampion Wind Farm	Operational	Υ	Υ	N	Υ	N	N	2016	2015-2018	Nov-18	Yes	No	No	No
Scroby Sands	Operational	Υ	Υ	N	Υ	N	N	-	2003-2004	2004	Yes	No	No	No
Sheringham Shoal	Operational	Υ	Υ	N	Υ	N	N	-	2009-2012	2012	Yes	No	No	No
Teesside	Operational	Υ	Υ	N	Υ	N	N	-	2012-2013	2013	Yes	No	No	No
Thanet	Operational	Υ	Υ	N	Υ	N	N	-	2009-2010	2010	Yes	No	No	No
Triton Knoll phase 1-3	Operational	Υ	Υ	N	Υ	N	N	2020	2019-2022	Mar-22	No	No	No	No





		W	/ithin Ma	arine Ma	ımmal Sc	reening Ar	ea	Pro	oject Specific De	etail		Results of CI	A Screening	
Name of Project	Project stage	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MUMoF	Seal MU Eas	Date of Piling (if known)	Dates of Construction	Date of Operation	Operational prior to GV surveys?	Potential for Construction Phase overlap with GV Construction?	Potential for overlap of OWF operation with GV construction?	Potential for overlap of OWF operation with GV operation?
Westermost Rough	Operational	Υ	Υ	N	Υ	N	N	-	2013-2014	2014	Yes	No	No	No
Dogger Bank A	Under construction	Υ	Υ	N	Υ	N	N	June 2022 - March 2023	2021-2023	Oct-23	N/A	No	No	No
Hornsea Project Two	Under construction	Υ	Υ	N	Υ	N	N	2021	2021-2022	Aug-22	N/A	No	No	No
Moray East	Under construction	Υ	Υ	Υ	Υ	Υ	N	2019-2020	2019-2022	Oct-22	N/A	No	No	No
Neart na Gaoithe	Under construction	Υ	Υ	Υ	Υ	N	Υ	2021-2023	2020-2024	Jun-24	N/A	No	No	No
Seagreen (formerly Alpha Bravo)	Under construction	Υ	Υ	N	Υ	N	Υ	2021 (not piling?)	2021-2022	Jan-23	N/A	No	No	No
Blyth Offshore Demonstrator Project - Phase 2 (floating)	Consented	Υ	Y	N	Υ	N	N	Floating	Unknown	Unknown	N/A	Unknown	No	No
Dogger Bank B	Consented	Υ	Υ	N	Υ	N	N	2023	2021-2024	Sep-24	N/A	No	No	No
Dogger Bank C	Consented	Υ	Υ	N	Υ	N	N	June 2024 - March 2025	2024-2025	Sep-25	N/A	No	No	No
East Anglia ONE North	Consented	Υ	Υ	N	Υ	N	N	2023-2026	2023-2026	2026	N/A	Yes - TBC	No	No
East Anglia THREE	Consented	Υ	Υ	N	Υ	N	N	2023-2026	2023-2026	2026	N/A	Yes - TBC	No	No
East Anglia TWO	Consented	Υ	Υ	N	Υ	N	N	2023-2026	2023-2026	2026	N/A	Yes - TBC	No	No





		w	ithin Ma	arine Ma	ammal Sc	reening Ar	ea	Pro	oject Specific De	etail		Results of CI	A Screening	
Name of Project	Project stage	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MUMoF	Seal MU Eas	Date of Piling (if known)	Dates of Construction	Date of Operation	Operational prior to GV surveys?	Potential for Construction Phase overlap with GV Construction?	Potential for overlap of OWF operation with GV construction?	Potential for overlap of OWF operation with GV operation?
ForthWind Demo Phase 1	Consented	Υ	N	Υ	Υ	N	Υ	2024	2024	Oct-24	N/A	No	No	No
Hornsea Project Three	Consented	Υ	Υ	N	Υ	N	N	2024-2027	2024-2027	Jan-27	N/A	Yes	No	No
Inch Cape	Consented	Υ	Υ	Υ	Υ	N	Υ	2024	2023-2026	Jan-26	N/A	Yes - TBC	No	No
Moray West	Consented	Υ	Υ	Υ	Υ	Υ	N	2023-2024	2023-2024	Jan-25	N/A	No	No	No
Norfolk Boreas	Consented	Υ	Υ	N	Υ	N	N	2025-2027	2025-2027	Apr-27	N/A	Yes	No	No
Norfolk Vanguard	Consented	Υ	Υ	N	Υ	N	N	2025-2027	2025-2027	2027	N/A	Yes	No	No
Pentland Floating Demo (formerly Dounreay Tri)	Consented	Υ	Υ	Υ	Υ	N	N	Floating	2026	Oct-26	N/A	Yes	No	No
Seagreen 1A	Consented	Υ	Υ	N	Υ	N	Υ	2024?	2024-??	Unknown	N/A	Unknown	No	No
Sofia (formerly Dogger Bank Teesside B)	Consented	Υ	Υ	N	Υ	N	N	2024	2022-2026	Oct-26	N/A	Yes	No	No
Dudgeon Extension	Application submitted	Υ	Υ	N	Y	N	N	2028 – 2031 (depending on constriction scenario)	2027 – 2032 (depending on constriction scenario)	2029 – 2032 (depending on constriction scenario)	N/A	Yes	No	No
Hornsea Project Four	Application submitted	Υ	Υ	N	Υ	N	N	2027-2028	2026-2028	2028	N/A	Yes	No	No





		w	ithin Ma	arine Ma	ımmal Sc	reening Ar	ea	Pro	oject Specific De	etail		Results of CI	A Screening	
Name of Project	Project stage	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MUMoF	Seal MU Eas	Date of Piling (if known)	Dates of Construction	Date of Operation	Operational prior to GV surveys?	Potential for Construction Phase overlap with GV Construction?	Potential for overlap of OWF operation with GV construction?	Potential for overlap of OWF operation with GV operation?
Sheringham Shoal Extension	Application submitted	Υ	Υ	N	Υ	N	N	2028 – 2031 (depending on constriction scenario)	2027 – 2032 (depending on constriction scenario)	2029 – 2032 (depending on constriction scenario)	N/A	Yes	No	No
Aspen (floating)	Early development	Υ	Υ	N	Υ	N	N	Floating	2024-2028	2028	No	Yes	No	No
Avalon	Early development	Υ	Υ	N	Υ	N	Υ	Unknown	Unknown	Unknown	Unknown	Unknown	No	No
Beech North (floating)	Early development	Υ	Υ	N	Υ	N	Υ	Floating	2024-2028	Jan-28	N/A	Yes	No	No
Beech South (floating)	Early development	Υ	Υ	N	Υ	N	Υ	Floating	2024-2028	Jan-28	N/A	Yes	No	No
Bellrock	Early development	Υ	Υ	N	Υ	N	Υ	Unknown	Unknown	Dec-29	N/A	Unknown	No	No
Berwick Bank (Seagreen Charlie Delta Echo)	Early development	Υ	Y	Υ	Υ	Υ	Υ	2027-2029	2027-2029	Dec-29	N/A	Yes	No	No
Broadshore (floating)	Early development	Υ	Υ	N	Υ	Υ	Υ	Floating	Unknown	Unknown	N/A	Unknown	No	No
Caledonia Offshore Wind Farm	Early development	Υ	Υ	N	Υ	Υ	N	Unknown	Unknown	Unknown	N/A	Unknown	No	No
CampionWind	Early development	Υ	Υ	N	Υ	N	Υ	Unknown	Unknown	Unknown	N/A	Unknown	No	No
Cenos	Early development	Υ	Υ	N	Υ	N	Υ	Unknown	Unknown	Unknown	N/A	Unknown	No	No





		w	ithin Ma	arine Ma	ımmal Sc	reening Ar	ea	Pro	oject Specific De	tail		Results of CI	A Screening	
Name of Project	Project stage	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MUMoF	Seal MU Eas	Date of Piling (if known)	Dates of Construction	Date of Operation	Operational prior to GV surveys?	Potential for Construction Phase overlap with GV Construction?	Potential for overlap of OWF operation with GV construction?	Potential for overlap of OWF operation with GV operation?
Central North Sea Electrification	Early development	Υ	Υ	N	Υ	N	Y	Unknown	Unknown	Unknown	N/A	Unknown	No	No
Cluaran Deas Ear	Early development	Υ	Υ	N	Υ	N	Υ	Unknown	Unknown	Unknown	N/A	Unknown	No	No
Cluaran Ear- Thuath	Early development	Υ	Υ	N	Υ	N	N	Unknown	Unknown	Unknown	N/A	Unknown	No	No
Dogger Bank South (East and West)	Early development	Υ	Υ	N	Υ	N	N	2026-??	2026-??	2030	N/A	Yes	No	No
Dolphyn Project - commercial (floating)	Early development	Υ	Y	Υ	N	N	Y	2028-2030 (floating)	2028-2030	2030	N/A	No	No	Yes
Dolphyn Project - pre- commercial (floating)	Early development	Υ	Υ	Υ	N	N	Υ	Floating	2027-2028	2028	N/A	Yes	No	No
Dylan (floating)	Early development	Υ	Υ	N	Υ	N	N	Floating	2028-??	Unknown	N/A	No	No	Yes
EMEC Test Site - Phase 1	Early development	Υ	Υ	N	Υ	N	N	Unknown	Unknown	Unknown	N/A	Unknown	No	No
EMEC Test Site - Phase 2	Early development	Υ	Υ	N	Υ	N	N	Unknown	Unknown	Unknown	N/A	Unknown	No	No
EMEC Test Site - Phase 3	Early development	Υ	Υ	N	Υ	N	N	Unknown	Unknown	Unknown	N/A	Unknown	No	No
Floating Energy Allyance NE8	Early development	Υ	Υ	N	Υ	N	Υ	Unknown	Unknown	Unknown	N/A	Unknown	No	No





		W	/ithin Ma	arine Ma	ımmal Sc	reening Ar	ea	Pro	oject Specific De	etail		Results of CI	A Screening	
Name of Project	Project stage	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MUMoF	Seal MU Eas	Date of Piling (if known)	Dates of Construction	Date of Operation	Operational prior to GV surveys?	Potential for Construction Phase overlap with GV Construction?	Potential for overlap of OWF operation with GV construction?	Potential for overlap of OWF operation with GV operation?
Five Estuaries	Early development	Υ	Υ	Υ	Υ	N	N	2028-2030	2028-2030	2030	N/A	No	No	Yes
Mara Mhòr (floating)	Early development	Υ	Υ	N	Υ	N	Υ	Unknown	Unknown	Unknown	N/A	Unknown	No	No
MaramWind	Early development	Υ	Υ	N	Υ	N	Υ	Unknown	Unknown	Unknown	N/A	Unknown	No	No
Morven	Early development	Υ	Υ	N	Υ	N	Υ	Unknown	Unknown	Unknown	N/A	Unknown	No	No
North Falls	Early development	Υ	Υ	N	Υ	N	N	?? - 2030	?? - 2030	2030	N/A	Unknown	No	No
Orcadian Microgrid	Early development	Υ	Υ	N	Υ	N	Υ	Unknown	Unknown	Unknown	N/A	Unknown	No	No
Ossian	Early development	Υ	Υ	N	Υ	N	Υ	Unknown	Unknown	Dec-27	N/A	Yes	No	No
Outer Dowsing	Early development	Υ	Υ	N	Υ	N	N	2027-2030	2027-2030	2030	N/A	Yes	No	No
Salamander (floating)	Early development	Υ	Υ	N	Υ	N	Υ	Floating	2026-2028	Jan-28	N/A	Yes	No	No
SENSEWind Demonstrator	Early development	Υ	N	Υ	Υ	N	Υ	Unknown	Unknown	Unknown	N/A	Unknown	No	No
Stromar	Early development	Υ	Υ	N	Υ	Υ	Υ	Unknown	Unknown	Dec-29	N/A	Unknown	No	No
West Of Orkney	Early development	N	N	N	Υ	N	N	2028-2029	2028-2029	Jan-29	N/A	No	No	Yes





Section 3.1.2 Offshore Wind Farms in other European Countries

- 32. European OWF projects (**Table 1-3**) were also considered for the CIA. Where possible, known dates of construction were used to assess whether there is the potential for construction periods to overlap with the Project construction.
- 33. Of the 86 European OWF projects considered, 59 are currently operational, 49 of which were operational prior to the start of the surveys (May 2020) and were screened out. Of the remaining 10 operational projects, as well as those currently in construction (six OWFs) and that have been consented (nine OWFs), only one has the potential for an overlap with the Project construction phase:
 - Dieppe Le Treport
 - Within the harbour porpoise, white-beaked dolphin, Atlantic white-sided dolphin, Risso's dolphin, and minke whale MUs
- 34. Of the three projects with a submitted planning application (three OWFs), and those in early development (nine OWFs), three projects have the potential for an overlap with the Project construction phase:
 - Dunkerque
 - Within the harbour porpoise, bottlenose dolphin, white-beaked dolphin, Atlantic white-sided dolphin, Risso's dolphin, and minke whale MUs
 - Thor
 - Within the harbour porpoise, bottlenose dolphin, white-beaked dolphin, Atlantic white-sided dolphin, Risso's dolphin, and minke whale MUs
 - Stora Middelgrund
 - Within the bottlenose dolphin, white-beaked dolphin, Atlantic white-sided dolphin, Risso's dolphin, and minke whale MUs
- 35. The results of the screening are presented in **Table 11-3**.





Table 1-3 CIA Screening for all European Offshore Wind Farm Projects within the Relevant Spatial Area for Each Species and Potential to Overlap with Green Volt Construction and Operation

		Wi	thin Marir	ne Mam	mal Scree	ening Ar	ea	Pr	oject Specific De	etail		Results of Cl	A Screening	
Name of Project	Project stage	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Date of Piling (if known)	Dates of Construction	Date of Operation	Operational prior to GV surveys?	Potential for Construction Phase overlap with GV Construction?	Potential for overlap of OWF operation with GV construction?	Potential for overlap of OWF operation with GV operation?
Offshore Wind	Farms in Belgiu	ım												
Belwind	Operational	Υ	Υ	N	Υ	N	N	-	2009-2010	2010	Yes	No	No	No
Belwind Alstom Haliade Demonstration	Operational	Υ	Y	N	Y	N	N	-	2013-2014	2014	Yes	No	No	No
Nobelwind	Operational	Υ	Υ	N	Υ	N	N	-	2016-2017	2017	Yes	No	No	No
Norther	Operational	Υ	Υ	N	Υ	N	N	Unknown	2018-2019	Jun-19	Yes	No	No	No
Northwester 2	Operational	Υ	Υ	N	Υ	N	N	Unknown	2019-2020	May-20	No	No	No	No
Northwind	Operational	Υ	Υ	N	Υ	N	N	-	2013-2014	2014	Yes	No	No	No
RENTEL	Operational	Υ	Υ	N	Υ	N	N	Unknown	2017-2018	Dec-18	Yes	No	No	No
Seamade (Mermaid)	Operational	Υ	Υ	N	Υ	N	N	Unknown	2017-2020	Dec-20	No	No	No	No
Seamade (SeaStar)	Operational	Υ	Υ	N	Υ	N	N	Unknown	Unknown	Dec-20	No	No	No	No
Thornton Bank phase I	Operational	Υ	Υ	N	Υ	N	N	-	2008-2009	2009	Yes	No	No	No
Thornton Bank phase II	Operational	Υ	Υ	N	Υ	N	N	-	2010-2013	2013	Yes	No	No	No
Thornton Bank phase III	Operational	Υ	Υ	N	Υ	N	N	-	2011-2013	2013	Yes	No	No	No
Offshore Wind	Farms in Denm	ark												
Anholt	Operational	N	Υ	N	Υ	N	N	-	2011-2013	2013	Yes	No	No	No





	Within Marine Ma						ea	Pr	oject Specific De	etail		Results of Cl	A Screening	
Name of Project	Project stage	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Date of Piling (if known)	Dates of Construction	Date of Operation	Operational prior to GV surveys?	Potential for Construction Phase overlap with GV Construction?	Potential for overlap of OWF operation with GV construction?	Potential for overlap of OWF operation with GV operation?
Frederikshavn	Operational	N	Υ	N	Υ	N	N	-	2002-2003	2003	Yes	No	No	No
Horns Rev 1	Operational	Υ	Υ	N	Υ	N	N	-	2002	2002	Yes	No	No	No
Horns Rev 2	Operational	Υ	Υ	N	Υ	N	N	-	2008-2010	2010	Yes	No	No	No
Horns Rev 3	Operational	Υ	Υ	N	Υ	N	N	Unknown	2018-2019	Aug-19	Yes	No	No	No
Nissum Bredning Vind	Operational	Υ	Υ	N	Υ	N	N	2017	2017-2018	Mar-18	Yes	No	No	No
Rønland (Nissum Bredning)	Operational	Υ	Υ	N	Y	N	N	-	2013-2014	2014	Yes	No	No	No
SamsØ	Operational	N	Υ	N	Υ	N	N	2002	2002-2003	2003	Yes	No	No	No
TunØ Knob	Operational	N	Υ	N	Υ	N	N	1995	1995	1995	Yes	No	No	No
Vesterhav Nord/Syd	Consented	Υ	Υ	N	Υ	N	N	2022- 2023	2022-2023	2023	N/A	No	Yes	No
Jammerland Bugt	Application submitted	N	Υ	N	Υ	N	N	2024-??	2024-??	Unknown	N/A	Unknown	Unknown	Unknown
Hanstholm	Early development	Υ	Υ	N	Υ	N	N	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Thor	Early development	Υ	Υ	N	Υ	N	N	2025- 2027	2025-2027	2027	N/A	Yes	No	No
Offshore Wind	Farms in Franc	е												
Eoliennes du Calvados	Under construction	Υ	N	N	Υ	N	N	2022	2022-2024	2024	N/A	No	No	No
Fécamp	Under construction	Υ	N	N	Υ	N	N	2022	2022-2023	2023	N/A	No	No	No





		Wi	thin Marii	ne Mam	mal Scree	ening Ar	ea	Pr	oject Specific De	etail		Results of Cla	A Screening	
Name of Project	Project stage	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Date of Piling (if known)	Dates of Construction	Date of Operation	Operational prior to GV surveys?	Potential for Construction Phase overlap with GV Construction?	Potential for overlap of OWF operation with GV construction?	Potential for overlap of OWF operation with GV operation?
Dieppe - Le Treport	Consented	Υ	N	N	Υ	N	N	2025- 2026	2025-2026	2026	N/A	Yes - TBC	No - TBC	No
Dunkerque	Early development	Υ	Υ	N	Υ	N	N	2027- 2028	2027-2028	2028	N/A	Yes	No	No
Offshore Wind	Farms in Germ	any												
Albatros	Operational	Υ	Υ	N	Υ	N	N	2019	2019-2020	Jan-20	Yes	No	No	No
Albatros	Operational	Υ	Υ	N	Υ	N	N	Unknown	2018-??	Jan-20	Yes	No	No	No
Alpha Ventus	Operational	Υ	Υ	N	Υ	N	N	-	2008-2010	2010	Yes	No	No	No
Amrumbank West	Operational	Υ	Υ	N	Υ	N	N	-	2013-2015	2015	Yes	No	No	No
BARD Offshore 1	Operational	Υ	Υ	N	Υ	N	N	-	2010-2013	2013	Yes	No	No	No
Borkum Riffgrund I	Operational	Υ	Υ	N	Υ	N	N	-	2008-2010	2010	Yes	No	No	No
Borkum Riffgrund II	Operational	Υ	Υ	N	Υ	N	N	2017- 2018	2017-2019	Dec-18	Yes	No	No	No
Butendiek (Offshore- Bürger- windpark)	Operational	Υ	Y	N	Υ	N	N	-	2014-2015	2015	Yes	No	No	No
Dan Tysk	Operational	Υ	Υ	N	Υ	N	N	-	2013-2015	2015	Yes	No	No	No
Deutsche Bucht	Operational	Υ	Υ	N	Υ	N	N	2018- 2019	2018-2019	Sep-19	Yes	No	No	No
ENOVA Ems Emden	Operational	Υ	Υ	N	Υ	N	N	-	2004	2004	Yes	No	No	No
Global Tech I	Operational	Υ	Υ	N	Υ	N	N	-	2012-2015	2015	Yes	No	No	No





		Wi	thin Marii	ne Mam	mal Scree	ening Ar	ea	Pr	oject Specific De	etail		Results of Cl	A Screening	
Name of Project	Project stage	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Date of Piling (if known)	Dates of Construction	Date of Operation	Operational prior to GV surveys?	Potential for Construction Phase overlap with GV Construction?	Potential for overlap of OWF operation with GV construction?	Potential for overlap of OWF operation with GV operation?
Gode Wind 1 and 2	Operational	Υ	Υ	N	Υ	N	N	-	2015-2017	2017	Yes	No	No	No
Hohe See	Operational	Υ	Υ	N	Υ	N	N	Unknown	2020-??	Nov-19	Yes	No	No	No
Meerwind Ost Sud	Operational	Υ	Υ	N	Υ	N	N	-	2012-2014	2014	Yes	No	No	No
Merkur	Operational	Υ	Υ	N	Υ	N	N	2017- 2018	2017-??	Jun-19	Yes	No	No	No
Nordergrunde	Operational	Υ	Υ	N	Υ	N	N	2016	2016-2017	2017	Yes	No	No	No
Nordsee One (Innogy Nordsee I)	Operational	Υ	Υ	N	Υ	N	N	2015- 2016	2015-2017	2017	Yes	No	No	No
Nordsee Ost	Operational	Υ	Υ	N	Υ	N	N	-	2012-2015	2015	Yes	No	No	No
Riffgat	Operational	Υ	Υ	N	Υ	N	N	-	2012-2014	2014	Yes	No	No	No
Sandbank	Operational	Υ	Υ	N	Υ	N	N	-	2015-2017	2017	Yes	No	No	No
Trianel Windpark Borkum Phase 1 (Borkum West II phase 1)	Operational	Υ	Υ	N	Υ	N	N	-	2011-2015	2015	Yes	No	No	No
Trianel Windpark Borkum Phase 2 (aka Borkum West II phase 2)	Operational	Υ	Υ	N	Υ	N	N	2018-??	2017-2020	Jul-20	No	No	No	No
Veja Mate	Operational	Υ	Υ	N	Υ	N	N	-	2016-2017	2017	Yes	No	No	No





		Wi	thin Marir	ne Mami	mal Scree	ening Ar	ea	Pr	oject Specific De	etail	Results of CIA Screening				
Name of Project	Project stage	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Date of Piling (if known)	Dates of Construction	Date of Operation	Operational prior to GV surveys?	Potential for Construction Phase overlap with GV Construction?	Potential for overlap of OWF operation with GV construction?	Potential for overlap of OWF operation with GV operation?	
Kaskasi	Under construction	Υ	Υ	N	Υ	N	N	2022	2021-2022	2022	N/A	No	No	No	
Borkum Riffgrund III	Consented	Υ	Υ	N	Υ	N	N	2023	2022-2025	2025	N/A	No	No	No	
EnBW He Dreiht	Consented	Υ	Υ	N	Υ	N	N	2024	2024-2025	2025	N/A	No	No	No	
Gode Wind 3	Consented	Υ	Υ	N	Υ	N	N	2023- 2024	2023-2024	2024	N/A	No	No	No	
AquaPrimus	Early development	Υ	Υ	N	Υ	N	N	Unknown	Unknown	Unknown	N/A	Unknown	No	No	
Atlantis I	Early development	Υ	Υ	N	Υ	N	N	Unknown	Unknown	Unknown	N/A	Unknown	No	No	
Global Tech II	Early development	Υ	Υ	N	Υ	N	N	Unknown	Unknown	Unknown	N/A	Unknown	No	No	
North Sea Cluster - Delta Nordsee 1&2	Early development	Υ	Υ	N	Y	N	N	Unknown	Unknown	Unknown	N/A	Unknown	No	No	
North Sea Cluster - Nordsee Three	Early development	Υ	Υ	N	Υ	N	N	Unknown	Unknown	Unknown	N/A	Unknown	No	No	
North Sea Cluster - Nordsee Two	Early development	Υ	Υ	N	Υ	N	N	2025-??	2025-??	Unknown	N/A	Unknown	No	No	
Offshore Wind	Farms in Nethe	rlands													
Borssele I and II	Operational	Υ	Υ	N	Υ	N	N	2020	2019-2020	Oct-20	No	No	No	No	
Borssele III and IV	Operational	Υ	Υ	N	Υ	N	N	2019- 2020	2019-2021	Jan-21	No	No	No	No	





		Wi	thin Marii	ne Mam	mal Scree	ening Ar	ea	Pr	oject Specific De	etail	Results of CIA Screening				
Name of Project	Project stage	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Date of Piling (if known)	Dates of Construction	Date of Operation	Operational prior to GV surveys?	Potential for Construction Phase overlap with GV Construction?	Potential for overlap of OWF operation with GV construction?	Potential for overlap of OWF operation with GV operation?	
Borssele Site V - Leeghwater - Innovation Plot	Operational	Υ	Υ	N	Υ	N	N	2020	2020-2021	Feb-21	No	No	No	No	
Egmond aan Zee (aka OWEZ)	Operational	Υ	Υ	N	Υ	N	N	-	2006-2007	2007	Yes	No	No	No	
Eneco Luchterduinen	Operational	Υ	Υ	N	Υ	N	N	-	2014-2015	2015	Yes	No	No	No	
Gemini ZeeEnergie	Operational	Υ	Υ	N	Υ	N	N	-	2015-2017	Apr-17	Yes	No	No	No	
Prinses Amalia Windpark (formerly Q7)	Operational	Υ	Υ	N	Υ	N	N	2006- 2007	2006-2007	2008	Yes	No	No	No	
Westermeerwi nd	Operational	Υ	Υ	N	Υ	N	N	-	2015-2016	Jun-16	Yes	No	No	No	
Windpark Fryslân	Operational	Υ	Υ	N	Υ	N	N	2020- 2021	2020-2021	Nov-21	No	No	No	No	
Hollandse Kust Zuid Holland I and II - Chinook	Under construction	Υ	Υ	N	Y	N	N	2022- 2023	2022-2023	Jun-23	N/A	No	No	No	
Hollandse Kust Zuid Holland III and IV	Under construction	Υ	Υ	N	Υ	N	N	2022- 2023	2022-2023	Jun-23	N/A	No	No	No	
Hollandse Kust Noord Holland I and II	Consented	Υ	Y	N	Υ	N	N	2022- 2023	2022-2023	Dec-23	N/A	No	No	No	





		Wi	thin Marir	ne Mam	mal Scree	ening Ar	ea	Pr	oject Specific De	etail	Results of CIA Screening				
Name of Project	Project stage	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Date of Piling (if known)	Dates of Construction	Date of Operation	Operational prior to GV surveys?	Potential for Construction Phase overlap with GV Construction?	Potential for overlap of OWF operation with GV construction?	Potential for overlap of OWF operation with GV operation?	
Offshore Wind	Farms in Norwa	ay													
Karmøy - Marine Energy Test Centre(Metce ntre) - Fixed	Operational	Υ	Υ	N	Υ	N	N	Unknown	Unknown	Jan-2009	Yes	No	No	No	
Karmøy - Marine Energy Test Centre (Metcentre) - Floating	Operational	Y	Υ	N	Υ	N	N	Floating	Unknown	Unknown	Unknown	No	Yes	No	
TetraSpar Demo - Metcentre (Floating)	Operational	у	у	N	у	N	N	Floating	2021	Dec-21	No	No	No	No	
UNITECH Zefryos by Hywind Technology (Karmoy / Hywind)	Operational	Υ	Υ	N	Υ	N	Ν	Floating	2009	2012	Yes	No	No	No	
Hywind Tampen	Under construction	Υ	Υ	N	Υ	N	N	Floating	2022	Jun-23	N/A	No	No	No	
FLAGSHIP - Metcentre (floating)	Consented	Υ	Y	N	Υ	N	N	Floating	2022	2022	N/A	No	No	No	
SeaTwirl S2	Consented	Υ	Υ	N	Υ	N	N	2023-??	2023-??	Unknown	N/A	Unknown	No	No	
Offshore Wind	Farms in Swed	en													
SeaTwirl S1	Operational	Υ	Υ	N	Υ	N	N	Floating	2015	2015	Yes	No	No	No	





	Within Marine Mammal Screening Area								oject Specific De	etail	Results of CIA Screening				
Name of Project	Project stage	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Date of Piling (if known)	Dates of Construction	Date of Operation	Operational prior to GV surveys?	Potential for Construction Phase overlap with GV Construction?	Potential for overlap of OWF operation with GV construction?	Potential for overlap of OWF operation with GV operation?	
Kattegatt Offshore	Consented	N	Υ	N	Υ	N	N	Unknown	Unknown	Unknown	N/A	Unknown	No	No	
Galatea- Galene	Application submitted	N	Υ	N	Υ	N	N	2028- 2030	2028-2030	Jan-30	N/A	No	No	Yes	
Stora Middelgrund	Application submitted	N	Υ	N	Υ	N	N	2026-??	2026-??	Unknown	N/A	Yes - TBC	No	No	





Section 3.2. Screening of Marine Renewable (Wave and Tidal) Projects

- 36. Both UK and EU MRE projects (e.g., wave and tidal) are considered in the CIA screening, however, no EU MRE projects have been included due to a lack of information.
- 37. Piling is highly unlikely to be used during the installation of wave and tidal 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.
- 38. The construction of wave or tidal developments is highly unlikely to significantly contribute to the cumulative impacts of the disturbance of marine mammals from underwater noise sources. However, any projects with the potential for overlapping construction windows with that of the Project has been screened in for assessment within the CIA.
- 39. The operation and maintenance of wave and tidal projects are also highly unlikely to contribute to the cumulative impacts of the disturbance of marine mammals from underwater noise sources and therefore have not been included in the CIA.
- 40. UK based projects were considered for potential construction, operational cumulative impacts, if those phases could overlap with the proposed construction of the Project, and sufficient information was available to determine this. Where no information was known on the potential construction phases of the other renewable energy projects, it was assumed that all projects currently operational, under construction, or consented would have completed construction prior to the construction of the Project. It was also assumed that all operational MRE projects are considered to be part of the existing baseline environment. The results of the screening are in Table 11-4.
- 41. All currently operational MRE projects have been operational since the start of the baseline surveys for the Project (May 2020), and are therefore screened out from further consideration in the CIA.
- 42. A total of 37 projects were considered for the CIA, ten of which have either have the potential for construction to overlap with the proposed construction of the Project, or have an unknown construction period, and 18 have the potential for operational cumulative impacts (eight of which also have the potential for overlapping construction periods). Two of the MRE projects with the potential for construction period overlaps are already consented, and so it is assumed these would be constructed prior to the Project. The remaining eight MRE projects with the potential for overlapping construction windows with the Project are all in early development, and there is therefore no certainty in the programmes of any construction activities and have therefore all been screened out of further assessment due to a lack of information.
- 43. Potential impacts during the operation of tidal projects include collision risk. However, tidal projects will have to have effective mitigation and monitoring to reduce the collision risk for marine mammals. Therefore, collision risk with tidal devices has been screened out of the CIA.
- 44. The operation and maintenance of all wave and tide projects have been screened out of the CIA.





Table 1-4 CIA Screening for Marine Renewable Projects within Relevant Spatial Areas and Potential Overlap with Green Volt Construction

	Type of	Businet	Within Area?	n Marine Ma	ammal Sc	reening		Omarational union	Potential for overlap of	Potential for
Name of Project	Type of project	Project Status	HP NS MU	BND GNS / CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	construction with GV construction?	overlap of operation with GV construction?
EMEC Blue Horizon	Wave	Operational	Υ	Υ	Υ	N	N	No	No	Yes
EMEC Magallanes 2	Tidal	Operational	Υ	Υ	Υ	N	N	Yes	No	No
EMEC Orbital O2	Tidal	Operational	Υ	Υ	Υ	N	N	No	No	Yes
MeyGen Pentland Firth Phase 1a	Tidal	Operational	Υ	Υ	Υ	N	N	Yes	No	No
Shetland Tidal Array Phase 1	Tidal	Operational	Υ	Υ	Υ	N	N	Yes	No	No
EMEC AWS Waveswing	Wave	Under construction	Υ	Υ	Υ	N	N	N/A	No	Yes
Shetland Tidal Array Phase 2	Tidal	Under construction	Υ	Υ	Υ	N	N	N/A	No	Yes
EMEC Aquantis	Tidal	Consented	Υ	Υ	Υ	N	N	N/A	Unknown	Yes
EMEC Orbital O2 - Phase 2	Tidal	Consented	Υ	Υ	Υ	N	N	N/A	No	Yes
MeyGen Pentland Firth Phase 2	Tidal	Consented	Υ	Υ	Υ	N	N	N/A	No	Yes
MeyGen Pentland Firth Phase 3	Tidal	Consented	Υ	Υ	Υ	N	N	N/A	No	Yes
Orbital Marine Eday 1	Tidal	Consented	Υ	Υ	Υ	N	N	N/A	Unknown	Yes
Perpetuus Tidal Energy Centre (PTEC)	Tidal	Consented	Υ	N	Υ	N	N	N/A	No	Yes
EMEC Stronsay Firth	Tidal	Early development	Υ	Υ	Υ	N	N	N/A	Unknown	Unknown
Lashy Sound Phase 1	Tidal	Early development	Υ	Υ	Υ	N	N	N/A	Unknown	Unknown
Lashy Sound Phase 2	Tidal	Early development	Υ	Υ	Υ	N	N	N/A	Unknown	Unknown





	Type of	Project	Withir Area?	n Marine Ma	mmal Sc	reening		On anakian al muian	Potential for overlap of	Potential for overlap of	
Name of Project	project	Status	HP NS MU	BND GNS / CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	construction with GV construction?	operation with GV construction?	
MeyGen Pentland Firth Phase 4	Tidal	Early development	Υ	Υ	Υ	N	N	N/A	Unknown	Unknown	
MeyGen Pentland Firth Phase 5	Tidal	Early development	Υ	Υ	Υ	N	N	N/A	Unknown	Unknown	
Orbital Marine Eday 2	Tidal	Early development	Υ	Υ	Υ	N	N	N/A	Unknown	Unknown	
Westray South	Tidal	Early development	Υ	Υ	Υ	N	N	N/A	Unknown	Unknown	
Yell Sound	Tidal	Early development	Υ	Υ	Υ	N	N	N/A	Unknown	Unknown	





Section 3.3. Screening of Aggregate and Dredging Projects

- 45. Aggregate extraction and dredging projects considered for the CIA screening were operational projects (production agreement areas), and those expected to be used in the future (exploration and option areas), for UK based projects (**Table 1-5**). No European projects were screened in due to a lack of information on project locations, phases, and programmes.
- 46. UK based projects listed were initially considered for potential operational cumulative impacts, if those phases could overlap with the proposed construction of the Project.
- 47. All aggregate extraction and dredging projects are considered to be part of the existing baseline environment if operational prior to the start of the baseline surveys for the Project, in May 2020. Out of the initial list of 76 aggregate projects, 70 were initially screened out as being operational prior to May 2020, with six aggregate projects becoming operational after the start of the baseline surveys.
- 48. When in transit, noise arising from dredging vessels is comparable with that from similar sized vessels and can therefore be considered as part of the baseline noise levels.
- 49. When undertaking dredging activities, higher levels of broadband noise at frequencies above 1 kHz are produced due to the impact or abrasion of aggregate material passing through the draghead, suction pipe and pump. The overall level of noise was found to be higher when extracting gravel compared to when extracting sand (Robinson *et al.*, 2011).
- 50. Considering the small potential impact ranges, distances of the aggregate extraction and dredging projects from the Project, the potential for contribution to cumulative impacts is very small. Therefore, risk of Permanent Threshold Shift (PTS) or Temporary Threshold Shift (TTS) in the hearing of all marine mammal species from aggregate extraction and dredging has been screened out from further consideration in the CIA.
- 51. As outlined in the BEIS (2020) RoC HRA for the Southern North Sea SAC, studies have indicated that harbour porpoise may be displaced by dredging operations within 600 m of the activities (Diederichs *et al.*, 2010).
- 52. As a precautionary approach, a total of six aggregate extraction and dredging projects are considered further for the potential cumulative disturbance.
- 53. The results of the screening aggregate extraction and dredging projects is presented in **Table 11- 5**.





Table 1-5 CIA Screening for UK Aggregate and Dredging Projects within the Relevant Spatial Areas and Potential to Overlap with Green Volt Construction

					w	ithin Mari	ne Mamma	al Screeni	ng Area	?		
Name of Project	Area Number	Project status	Licence start date	Licence end date	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Potential for overlap of operation with GV construction? [
EEC North	474/1	Expired	Jul-09	Nov-21	Yes	No	N	Υ	N	N	Yes	No
EEC North	474/2	Expired	Jul-09	Nov-21	Yes	No	N	Υ	N	N	Yes	No
EEC North	474/3	Expired	Jul-09	Nov-21	Yes	No	N	Υ	N	N	Yes	No
Norfolk	212	Expired	Mar-14	Dec-35	Yes	Yes	N	Υ	No	No	Yes	No
Cutline	447	Expired			Yes	Yes	N	Υ	No	No	N/A	N/A
Cutline	447	Expired			Yes	Yes	N	Υ	No	No	N/A	N/A
Cutline	447	Expired			Yes	Yes	N	Υ	No	No	N/A	N/A
New 495	525	Expired			Yes	Yes	N	Υ	No	No	N/A	N/A
North Nab	372/1	Expired			Yes	No	N	Υ	N	N	N/A	N/A
Colbart	530	Exploration & Option area	Aug-17	Jul-22	Yes	No	N	Y	No	No	Yes	No
EEC 1 (former 503)	529	Exploration & Option area	Aug-17	Jul-22	Yes	No	N	Υ	No	No	Yes	No
Outer OTE	528/2	Exploration & Option area	Aug-17	Jul-22	Yes	Yes	N	Υ	No	No	Yes	No
East Orford Ness	1809	Exploration & Option area	Sep-19	Aug-24	Yes	Yes	N	Υ	No	No	Yes	Yes
EEC 5 South	1806	Exploration & Option area	Sep-19	Aug-24	Yes	No	N	Y	No	No	Yes	Yes
EEC 5 South	1807	Exploration & Option area	Sep-19	Aug-24	Yes	No	N	Y	No	No	Yes	Yes
Lowestoft Extension	1804	Exploration & Option area	Sep-19	Aug-24	Yes	Yes	N	Υ	No	No	Yes	Yes
West Bassurelle Extension	1803	Exploration & Option area	Sep-19	Aug-24	Yes	Yes	N	Υ	No	No	Yes	Yes





					W	/ithin Mari	ne Mamm	al Screeni	ng Area	1?		
Name of Project	Area Number	Project status	Licence start date	Licence end date	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Potential for overlap of operation with GV construction? [
Inner Dowsing	1805	Exploration and Option Area	Sep-19	Aug-24	Yes	Yes	N	Υ	N	N	Yes	No
Area 1 South	478	Production	Dec-12	Apr-24	Yes	No	N	Υ	N	N	Yes	No
Inner Dowsing	481/1-2	Production	Dec-12	Oct-24	Yes	Yes	N	Υ	No	No	Yes	No
Inner Dowsing	481/1-2	Production	Dec-12	Oct-24	Yes	Yes	N	Υ	No	No	Yes	No
Southwold East	430	Production	Dec-12	Nov-25	Yes	Yes	N	Υ	No	No	Yes	No
Southwold East	430	Production	Dec-12	Nov-25	Yes	Yes	N	Υ	No	No	Yes	No
West Bassurelle	458 & 464	Production	Dec-12	Sep-22	Yes	No	N	Υ	N	N	Yes	No
West Bassurelle	458 & 464	Production	Dec-12	Sep-22	Yes	No	N	Υ	N	N	Yes	No
South Hastings	460	Production	Jan-13	Jan-28	Yes	No	N	Υ	N	N	Yes	No
South Hastings	460	Production	Jan-13	Jan-28	Yes	No	N	Υ	N	N	Yes	No
South Hastings	460	Production	Jan-13	Jan-28	Yes	No	N	Υ	N	N	Yes	No
Off Selsey Bill	395/1-2	Production	Mar-13	Mar-28	Yes	No	N	Υ	N	N	Yes	No
St Catherine's	407	Production	Mar-13	Mar-28	Yes	No	N	Υ	N	N	Yes	No
Off Selsey Bill	395/1-2	Production	Mar-13	Mar-28	Yes	No	N	Υ	N	N	Yes	No
St Catherine's	451	Production	Apr-13	Mar-28	Yes	No	N	Υ	N	N	Yes	No
Longsand	508	Production	Apr-14	Mar-29	Yes	Yes	N	Υ	No	No	Yes	No
Cross Sands	242 - 361/1-3	Production	Jan-15	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No
Humber 1	514/1	Production	Jan-15	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No





					W	/ithin Mari	ne Mamm	al Screeni	ng Area	1?		
Name of Project	Area Number	Project status	Licence start date	Licence end date	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Potential for overlap of operation with GV construction? [
Humber 2	514/2	Production	Jan-15	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No
Humber 3	514/3	Production	Jan-15	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No
Humber 4	514/4	Production	Jan-15	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No
Humber Estuary	106/1	Production	Jan-15	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No
Humber Estuary	106/2	Production	Jan-15	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No
Humber Estuary	106/3	Production	Jan-15	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No
Humber Estuary	400	Production	Jan-15	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No
Lowestoft	511, 512, 513/1&2	Production	Jan-15	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No
Needles Isle of Wight	137	Production	Jan-15	Dec-29	Yes	No	N	Υ	N	N	Yes	No
North Inner Gabbard	498	Production	Jan-15	Jan-30	Yes	Yes	N	Υ	No	No	Yes	No
North Inner Gabbard	498	Production	Jan-15	Jan-30	Yes	Yes	N	Υ	No	No	Yes	No
Off Great Yarmouth	228	Production	Jan-15	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No
Off Great Yarmouth Extension	240	Production	Jan-15	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No
Off Saltfleet	197	Production	Jan-15	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No
Outer Dowsing	515/1-2	Production	Jan-15	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No
Southeast Isle of Wight	340	Production	Jan-15	Dec-29	Yes	No	N	Υ	N	N	Yes	No





					W	/ithin Mari	ne Mamm	al Screeni	ng Area	1?		
Name of Project	Area Number	Project status	Licence start date	Licence end date	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Potential for overlap of operation with GV construction? [
Southeast Isle of Wight	351	Production	Jan-15	Dec-29	Yes	No	N	Υ	N	N	Yes	No
Southeast Isle of Wight	340	Production	Jan-15	Dec-29	Yes	No	N	Υ	N	N	Yes	No
Southeast Isle of Wight	351	Production	Jan-15	Dec-29	Yes	No	N	Υ	N	N	Yes	No
Southwest Isle of Wight	127	Production	Jan-15	Dec-29	Yes	No	N	Υ	N	N	Yes	No
Yarmouth	401/2A	Production	Jan-15	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No
Longsand	509/1-3	Production	Jun-15	Jun-30	Yes	Yes	N	Υ	No	No	Yes	No
Longsand	510/1-2	Production	Jun-15	Jun-30	Yes	Yes	N	Υ	No	No	Yes	No
Inner Owers	435/1-2	Production	Jul-15	Jul-30	Yes	No	N	Υ	N	N	Yes	No
Thames D	524	Production	Sep-15	Dec-21	Yes	Yes	N	Υ	No	No	Yes	No
Humber 3	484	Production	Jan-16	Dec-29	Yes	Yes	N	Υ	No	No	Yes	No
Shipwash	507/1-6	Production	Oct-16	Sep-31	Yes	Yes	N	Υ	No	No	Yes	No
Humber Overfalls	493	Production	Jan-17	Dec-31	Yes	Yes	N	Υ	No	No	Yes	No
North Cross Sands	494	Production	Jan-17	Dec-31	Yes	Yes	N	Υ	No	No	Yes	No
Humber 4 and 7	506	Production	Apr-17	Mar-32	Yes	Yes	N	Υ	No	No	Yes	No
Inner Owers	396/1-2	Production	Apr-17	Jul-30	Yes	No	N	Υ	N	N	Yes	No
Inner Owers North	488	Production	Apr-17	Jul-30	Yes	No	N	Υ	N	N	Yes	No
Owers Extension	453	Production	Apr-17	Mar-32	Yes	No	N	Υ	N	N	Yes	No
South of Needles Channel	500/3	Production	Apr-17	Mar-32	Yes	No	N	Υ	N	N	Yes	No





					W	ithin Mari	ne Mamma	al Screeni	ng Area	?		
Name of Project	Area Number	Project status	Licence start date	Licence end date	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Potential for overlap of operation with GV construction? [
Southwest Isle of Wight	500/4	Production	Apr-17	Mar-32	Yes	No	N	Υ	N	N	Yes	No
South Wight	500/1-2	Production	Apr-17	Mar-32	Yes	No	N	Υ	N	N	Yes	No
North Falls East	501	Production	Jul-17	Jun-32	Yes	Yes	N	Υ	No	No	Yes	No
Humber 5	483	Production	Apr-18	Mar-33	Yes	Yes	N	Υ	No	No	Yes	No
Goodwin Sands	521	Production	Oct-18	Dec-22	Yes	Yes	N	Υ	No	No	Yes	Yes
Off Great Yarmouth	254	Production	Oct-18	Sep-33	Yes	Yes	N	Υ	No	No	Yes	Yes
Median Deep	461	Production	Sep-21	Sep-36	Yes	No	N	Υ	N	N	No	Yes
West Wight	522	Production	Sep-21	Sep-36	Yes	No	N	Υ	N	N	No	Yes
Greenwich Light East	473/1	Production	Nov-21	Nov-36	Yes	No	N	Υ	N	N	No	Yes
Greenwich Light East	473/2	Production	Nov-21	Nov-36	Yes	No	N	Υ	N	N	No	Yes
Greenwich Light East	473/2	Production Agreement Area	Nov-21	Nov-36	Yes	No	N	Υ	N	N	No	Yes
Greenwich Light East	473/1	Production Agreement Area	Nov-21	Nov-36	Yes	No	N	Υ	N	N	No	Yes





Section 3.4 Screening of Licenced Disposal Sites

- 54. All UK licensed disposal sites are considered to be part of the existing baseline environment as were all operational prior to the start of the baseline surveys in May 2020. All UK licensed disposal sites have been **screened out from further consideration in the CIA**.
- 55. The results of the CIA screening for UK licensed disposal sites are presented in Table 11-6.

Table 1-6 CIA Screening for UK Disposal Sites

Table To ent delection				Within M	arine Mamr	nal Screeni	ng Area?		
Name of Project	Reference	Area (km²)	Status	HP NS MU	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS
NORTH FENI RIDGE	AT001	0.000422245	Closed	No	No	No	Yes	No	No
Atlantic 4	AT005	1.89819E-07	Closed	No	No	No	Yes	No	No
ATLANTIC 1	AT010	1.24997827	Closed	No	No	No	Yes	No	No
ATLANTIC 2	AT020	1.374552646	Closed	No	No	No	Yes	No	No
ATLANTIC 3	AT030	1.242619009	Closed	No	No	No	Yes	No	No
WESTERN APPROACHES	AT040	0.294466458	Closed	No	No	No	Yes	No	No
ATLANTIC 5	AT050	0.999999875	Closed	No	No	No	Yes	No	No
Celtic Deep	AT055	9.46282E-09	Closed	No	No	No	Yes	No	No
RADIOACTIVE WASTE AREA	AT060	0.50009828	Closed	No	No	No	Yes	No	No
ATLANTIC 6	AT070	1.070111283	Closed	No	No	No	Yes	No	No
ATLANTIC 7	AT080	1.081035409	Closed	No	No	No	Yes	No	No
Atlantic 8	AT081	1.009793859	Closed	No	No	No	Yes	No	No
ATLANTIC FISH WASTE	AT090	0.166700361	Closed	No	No	No	Yes	No	No
WICK	CR010	0.00010353	Closed	Yes	Yes	Yes	Yes	Yes	No
Sutors	CR019	3.2006E-05	Open	Yes	No	Yes	Yes	Yes	No
Helmsdale	CR020	0.000119471	Disused	Yes	No	Yes	Yes	Yes	No
WHITENESS SANDS C	CR021	5.32943E-05	Disused	Yes	Yes	Yes	Yes	Yes	No
WHITENESS SANDS	CR022	1.58733E-05	Closed	Yes	Yes	Yes	Yes	Yes	No
WHITESNESS SANDS B	CR023	3.82145E-05	Closed	Yes	Yes	Yes	Yes	Yes	No
EVANTON	CR024	1.27596E-05	Closed	Yes	Yes	Yes	Yes	Yes	No
CROMARTY	CR025	5.8118E-06	Closed	Yes	Yes	Yes	Yes	Yes	No
INVERNESS B	CR026	9.86503E-06	Closed	Yes	Yes	Yes	Yes	Yes	No
Inverness	CR027	5.78782E-06	Open	Yes	No	Yes	Yes	Yes	No
MORAY FIRTH- BANK BUOY	CR028	4.03487E-06	Closed	Yes	Yes	Yes	Yes	Yes	No
Burghead	CR030	0.000406198	Open	Yes	No	Yes	Yes	Yes	No
LOSSIEMOUTH	CR031	1.96281E-05	Closed	Yes	Yes	Yes	Yes	Yes	No
Lossiemouth Harbour	CR034	6.94445E-06	Open	No	No	No	Yes	No	No
Buckie	CR040	0.000405956	Open	Yes	No	Yes	Yes	Yes	No





				Within M	arine Mamn	nal Screeni	ng Area?		
Name of Project	Reference	Area (km²)	Status	HP NS MU	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS
Banff Harbour	CR048	1.68055E-08	Open	Yes	No	Yes	Yes	Yes	No
Macduff	CR050	0.000405808	Open	Yes	No	Yes	Yes	Yes	No
Fraserburgh	CR060	1.61832E-05	Open	Yes	No	Yes	Yes	Yes	No
Peterhead	CR070	0.000100902	Disused	Yes	No	Yes	Yes	No	Yes
Peterhead Harbour	CR071	6.09722E-06	Open	Yes	No	Yes	Yes	Yes	No
North Buchan Ness	CR080	0.000145319	Open	Yes	No	Yes	Yes	No	Yes
MIDDLE BUCHAN NESS	CR090	0.000556014	Closed	Yes	Yes	Yes	Yes	No	Yes
MIDDLE BUCHAN NESS B	CR095	9.49881E-06	Closed	Yes	Yes	Yes	Yes	No	Yes
SOUTH BUCHAN NESS	CR100	0.000100833	Closed	Yes	Yes	Yes	Yes	No	Yes
SOUTH BUCHAN NESS B	CR105	5.18673E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
Aberdeen	CR110	0.0001	Open	Yes	No	Yes	Yes	No	Yes
NAIRN	CR120	3.16832E-05	Closed	Yes	Yes	Yes	Yes	Yes	No
Nairn	CR121	2.61333E-06	Open	Yes	No	Yes	Yes	Yes	No
DORNOCH	CR130	4.05708E-06	Closed	Yes	Yes	Yes	Yes	Yes	No
Queensferry	CR140	1.18009E-06	Disused	Yes	No	Yes	Yes	Yes	No
Lochboisdale	CR160	5.27777E-07	Open	Yes	No	Yes	Yes	Yes	No
Balnapaling	CR170	5.55554E-08	Open	Yes	No	Yes	Yes	Yes	No
River Brora	CR180	1.32778E-05	Open	Yes	No	Yes	Yes	Yes	No
Dogger Bank Teeside B	DG025	0.083326245	Disused	Yes	Yes	No	Yes	No	No
Dogger Bank Teeside A	DG030	0.078697226	Disused	Yes	Yes	No	Yes	No	No
NORTH SEA INCINERATOR AREA	DG040	0.334946126	Closed	Yes	Yes	No	Yes	No	No
SHOREHAM HARBOUR	DM005	3.17793E-06	Closed	Yes	Yes	No	Yes	No	No
Dover	DV010	0.000192161	Open	Yes	Yes	No	Yes	No	No
Dover - emergency site	DV011	4.89965E-06	Open	Yes	Yes	No	Yes	No	No
EAST WEAR BAY	DV013	6.89955E-05	Closed	Yes	Yes	No	Yes	No	No
FOLKESTONE	DV015	1.54623E-05	Closed	Yes	Yes	No	Yes	No	No
FOLKSTONE B	DV017	2.02535E-05	Closed	Yes	Yes	No	Yes	No	No
MILLPOINT ROCKS	DV018	4.24589E-06	Closed	Yes	Yes	No	Yes	No	No
SANDGATE BELL	DV020	5.52112E-05	Closed	Yes	Yes	No	Yes	No	No
RYE BAY	DV030	5.50488E-05	Closed	Yes	Yes	No	Yes	No	No
Lydd Ranges	DV031	6.46057E-05	Open	Yes	Yes	No	Yes	No	No
Eastbourne	DV040	1.36992E-05	Open	Yes	No	No	Yes	No	No





				Within M	arine Mamr	nal Screeni	ng Area?		
Name of Project	Reference	Area (km²)	Status	HP NS	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS
Wish Tower	DV045	5.27782E-06	Disused	Yes	No	No	Yes	No	No
Eastbourne Frontage	DV046	4.30454E-05	Open	Yes	Yes	No	Yes	No	No
Dounreay microsite	FI002	1.41307E-05	Disused	Yes	No	Yes	Yes	No	No
SCRABSTER	FI005	3.26061E-05	Closed	Yes	Yes	No	Yes	No	No
Scrabster Extension	FI008	1.04561E-05	Closed	Yes	Yes	No	Yes	No	No
THURSO	FI010	0.000149954	Closed	Yes	Yes	No	Yes	No	No
Kirkwall	FI015	0.000105258	Disused	No	No	No	Yes	No	No
ORKNEY	FI020	0.000105716	Closed	Yes	Yes	No	Yes	No	No
GILLS BAY	FI030	3.26285E-05	Closed	Yes	Yes	No	Yes	No	No
STROMNESS A	FI040	4.30037E-05	Disused	Yes	Yes	No	Yes	No	No
STROMNESS C	FI045	4.29882E-05	Closed	Yes	Yes	No	Yes	No	No
STROMNESS B	FI050	3.28523E-05	Closed	Yes	Yes	No	Yes	No	No
Scapa	FI055	3.27489E-05	Disused	Yes	No	Yes	Yes	No	No
SYMBISTER	FI060	3.42863E-05	Closed	Yes	Yes	No	Yes	No	No
SYMBISTER A	FI065	3.42914E-05	Closed	Yes	Yes	No	Yes	No	No
SKERRIES	FI068	4.37393E-06	Closed	Yes	Yes	No	Yes	No	No
CULLIVOE	FI070	4.41083E-06	Closed	Yes	Yes	No	Yes	No	No
Lerwick	FI080	3.41257E-05	Disused	Yes	Yes	No	Yes	No	No
PUNDS VOE	FI090	0.000108759	Closed	Yes	Yes	No	Yes	No	No
SCALLOWAY	FI095	4.33207E-06	Closed	Yes	Yes	No	Yes	No	No
FOULA	FI100	6.59832E-05	Disused	Yes	Yes	No	Yes	No	No
NORTH HAVEN	FI110	2.06588E-05	Closed	Yes	Yes	No	Yes	No	No
ULSTA	FI120	3.44371E-05	Disused	Yes	Yes	No	Yes	No	No
TOFT	FI125	3.44143E-05	Disused	Yes	Yes	No	Yes	No	No
STONEHAVEN	FO003	9.94081E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
STONEHAVEN B	FO007	9.9375E-05	Disused	Yes	Yes	Yes	Yes	No	Yes
Montrose	FO010	9.86109E-05	Open	Yes	No	Yes	Yes	No	Yes
Arbroath	FO020	9.82879E-05	Open	Yes	No	Yes	Yes	No	Yes
FIRTH OF TAY E	FO021	4.01462E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
FIRTH OF TAY B	FO022	1.08102E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
NEWCOME BUOY	FO023	1.64895E-05	Disused	Yes	Yes	Yes	Yes	No	Yes
HORSESHOE BAY	FO024	3.4032E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
TAY BRIDGE	FO025	2.64843E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
INVERGOWRIE A	FO026	2.41129E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
INVERGOWRIE B	FO027	4.10089E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
Middle Bank (tay)	FO028	4.67184E-05	Open	Yes	No	Yes	Yes	No	Yes
BELL ROCK	FO030	0.003531782	Closed	Yes	Yes	Yes	Yes	No	Yes
PORT EDGAR	FO035	3.86326E-06	Closed	Yes	Yes	Yes	Yes	No	Yes





				Within M	arine Mamr	nal Screeni	ng Area?		
Name of Project	Reference	Area (km²)	Status	HP NS	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS
Blae Rock A	FO036	8.22832E-05	Disused	Yes	Yes	No	Yes	No	Yes
BLAE ROCK B	FO037	5.58135E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
Narrow Deep B	FO038	0.000138117	Open	Yes	Yes	No	Yes	No	Yes
NARROW DEEP S.E. OF INCHKEITH	FO039	2.76592E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
FIRTH OF FORTH	FO040	3.98759E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
Oxcars main	FO041	0.00048289	Open	Yes	Yes	No	Yes	No	Yes
Oxcars ext a	FO042	6.65139E-05	Open	Yes	Yes	No	Yes	No	Yes
Oxcars ext b	FO043	3.77545E-05	Open	Yes	Yes	No	Yes	No	Yes
Bo'ness	FO044	0.00070341	Open	Yes	Yes	No	Yes	No	Yes
PORT SETON SITE	FO045	5.00023E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
LEITH	FO046	1.6566E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
KIRKCALDY	FO047	9.71798E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
Methil	FO048	9.73468E-05	Open	Yes	Yes	No	Yes	No	Yes
ST.ABBS HEAD	FO050	0.003500664	Closed	Yes	Yes	Yes	Yes	No	Yes
PITTENWEEM	FO051	6.23529E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
HOUND POINT	FO052	1.0994E-05	Closed	Yes	Yes	Yes	Yes	No	Yes
River Carron	FO053	2.2222E-07	Open	Yes	No	Yes	Yes	No	Yes
Granton	FO054	2.10694E-05	Open	Yes	No	Yes	Yes	No	Yes
Kinness Burn	FO055	2.44444E-06	Open	Yes	No	Yes	Yes	No	Yes
Water of Girvan	FO056	2.24844E-05	Open	Yes	No	Yes	Yes	No	Yes
Maidens	FO057	4.96528E-07	Open	Yes	No	Yes	Yes	No	Yes
St Monans	FO058	1.46542E-06	Open	Yes	No	No	Yes	No	No
DUNBAR	FO060	0.001554002	Closed	Yes	Yes	Yes	Yes	No	Yes
Eyemouth	FO080	9.66289E-05	Open	Yes	Yes	No	Yes	No	No
BERWICK	FO100	0.000385798	Closed	Yes	Yes	Yes	Yes	No	No
Anstruther	FO101 (onshore)	6.08765E-05	Open	No	No	No	No	No	No
ISLE OF EIGG	HE020	3.10539E-05	Closed	No	No	No	Yes	No	No
SOUND OF CANNA	HE025	3.12155E-05	Closed	No	No	No	Yes	No	No
LOCH MADDY	HE030	1.9542E-05	Closed	No	No	No	Yes	No	No
LEVERBURGH	HE033	3.17881E-05	Closed	No	No	No	Yes	No	No
STORNOWAY	HE035	2.354E-05	Closed	No	No	No	Yes	No	No
LOCHINVER	HE040	1.04795E-05	Closed	No	No	No	Yes	No	No
ULLAPOOL (LOCH BROOM)	HE050	5.27717E-06	Disused	No	No	No	Yes	No	No
LOCH INCHARD	HE060	1.94273E-05	Closed	No	No	No	Yes	No	No
LOCH NEVIS	HE070	1.59003E-05	Disused	No	No	No	Yes	No	No
PORT MOR ISLE OF MUCK	HE080	3.1207E-05	Closed	No	No	No	Yes	No	No





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BRIDLINGTON BAY	HU010	0.000369801	Closed	Yes	Yes	No	Yes	No	No
Bridlington a	HU015	0.000370066	Open	Yes	Yes	No	Yes	No	No
Humber 4b/hook	HU020	6.04121E-05	Open	Yes	Yes	No	Yes	No	No
Humber 4b/hook extension	HU021	4.49336E-05	Open	Yes	Yes	No	Yes	No	No
Hedon haven	HU022	5.53842E-06	Disused	Yes	Yes	No	Yes	No	No
Stone creek	HU023	2.56865E-06	Disused	Yes	Yes	No	Yes	No	No
ALEXANDRA DOCK	HU025	0.0001	Closed	Yes	Yes	No	Yes	No	No
Humber 4	HU030	4.40612E-05	Open	Yes	Yes	No	Yes	No	No
East Halton	HU035	1.93566E-06	Open	Yes	Yes	No	Yes	No	No
Whitgift Bight (river ouse)	HU040	8.55927E-05	Open	Yes	Yes	No	Yes	No	No
Goole Reach	HU041	6.34135E-05	Open	Yes	Yes	No	Yes	No	No
Keadby Power Station	HU043	-1.65502E-05	Closed	Yes	Yes	No	Yes	No	No
Keadby Station	HU044	2.21707E-05	Open	Yes	Yes	No	Yes	No	No
REDCLIFFE	HU045	1.70006E-07	Closed	Yes	Yes	No	Yes	No	No
HULL MARINA	HU046	1.7023E-07	Closed	Yes	Yes	No	Yes	No	No
HUMBER 3	HU050	5.2404E-05	Closed	Yes	Yes	No	Yes	No	No
FOUL HOLME DEPOSIT	HU055	4.28935E-05	Closed	Yes	Yes	No	Yes	No	No
Holme Channel Deep	HU056	3.51629E-05	Open	Yes	Yes	No	Yes	No	No
FOUL HOLM (CIRCULAR)	HU057	0.000131788	Closed	Yes	Yes	No	Yes	No	No
Humber 3a	HU060	3.29774E-05	Open	Yes	Yes	No	Yes	No	No
NEW SAND HOLE	HU070	9.1446E-05	Closed	Yes	Yes	No	Yes	No	No
Humber 1a	HU080	0.000281099	Open	Yes	Yes	No	Yes	No	No
NORTH SUNK	HU081	7.18667E-05	Closed	Yes	Yes	No	Yes	No	No
Sunk Dredge Channel A	HU082	0.000135518	Disused	Yes	Yes	No	Yes	No	No
Sunk Dredge Channel Window C	HU083	4.88481E-05	Open	Yes	Yes	No	Yes	No	No
Humber 2	HU090	1.64713E-05	Open	Yes	Yes	No	Yes	No	No
HUMBER 2 EXTENSION A	HU091	1.4503E-05	Closed	Yes	Yes	No	Yes	No	No
HUMBER 2 EXTENSION B	HU092	1.39988E-05	Closed	Yes	Yes	No	Yes	No	No
HUMBER 2 EXTENSION C	HU093	1.07705E-05	Closed	Yes	Yes	No	Yes	No	No
Humber gateway OWF	HU097	-2.84519E-08	Disused	Yes	Yes	No	Yes	No	No
SPURN HEAD	HU100	0.006938512	Closed	Yes	Yes	No	Yes	No	No





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Bull sand fort extension	HU109	5.77855E-05	Open	Yes	Yes	No	Yes	No	No
HUMBER 1	HU110	8.99755E-05	Closed	Yes	Yes	No	Yes	No	No
Bull sand fort	HU111	9.566E-05	Disused	Yes	Yes	No	Yes	No	No
PYEWIPE CHANNEL	HU112	1.09206E-05	Closed	Yes	Yes	No	Yes	No	No
Wash bank	HU114	3.36379E-05	Disused	Yes	Yes	No	Yes	No	No
ADJACENT TO SOUTHERN BASIN GAS	HU115	0.0003	Closed	Yes	Yes	No	Yes	No	No
PICKERILL FIELD	HU116	9.42671E-06	Closed	Yes	Yes	No	Yes	No	No
GALAHAD PIPELINE ROUTE	HU118	0.000209466	Closed	Yes	Yes	No	Yes	No	No
LYNN KNOCK BUOY	HU120	1.67602E-07	Closed	Yes	Yes	No	Yes	No	No
Sherringham shoal drillings	HU123	0.004697767	Disused	Yes	Yes	No	Yes	No	No
NEW LYNN KNOCK BAY	HU125	0.000562128	Closed	Yes	Yes	No	Yes	No	No
Race Bank OWF	HU126	0.038212978	Open	Yes	Yes	No	Yes	No	No
Boston Deep	HU128	2.40791E-05	Open	Yes	Yes	No	Yes	No	No
BOSTON 1	HU130	2.64336E-06	Closed	Yes	Yes	No	Yes	No	No
BOSTON 2	HU135	2.98356E-05	Closed	Yes	Yes	No	Yes	No	No
BOSTON 4	HU136	8.08741E-06	Closed	Yes	Yes	No	Yes	No	No
BOSTON 3	HU137	4.15762E-05	Closed	Yes	Yes	No	Yes	No	No
BOSTON 5	HU138	7.78962E-05	Closed	Yes	Yes	No	Yes	No	No
BOSTON 6	HU139	9.56643E-06	Closed	Yes	Yes	No	Yes	No	No
BREAST SAND	HU140	0.000223479	Closed	Yes	Yes	No	Yes	No	No
BREAST SAND EAST	HU141	0.000312494	Closed	Yes	Yes	No	Yes	No	No
OWER BANK	HU142	0.000840462	Closed	Yes	Yes	No	Yes	No	No
West Stones	HU143	0.000359487	Open	Yes	Yes	No	Yes	No	No
LEMAN BANK	HU144	0.000865963	Closed	Yes	Yes	No	Yes	No	No
DUDGEON	HU145	0.000829281	Closed	Yes	Yes	No	Yes	No	No
MUNDESLEY B	HU146	1.20511E-05	Closed	Yes	Yes	No	Yes	No	No
Dudgeon OWF	HU147	-0.007428546	Closed	Yes	Yes	No	Yes	No	No
MUNDESLEY A	HU148	1.32299E-05	Closed	Yes	Yes	No	Yes	No	No
NORTH WEST ZONE AREA 107	HU149	0.000788952	Closed	Yes	Yes	No	Yes	No	No
Great Yarmouth	HU150	8.93226E-05	Open	Yes	Yes	No	Yes	No	No
Wells beneficial use site	HU151	1.35677E-05	Closed	Yes	Yes	No	Yes	No	No
Wells Outer Harbour Site A	HU152	7.6808E-07	Open	No	No	No	Yes	No	No





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Wells outer harbour site B	HU153	5.06694E-06	Closed	Yes	Yes	No	Yes	No	No
Wells Outer Harbour Site C	HU154	2.6853E-07	Open	No	No	No	Yes	No	No
GREAT YARMOUTH B	HU155	8.92017E-05	Closed	Yes	Yes	No	Yes	No	No
Well Beneficial Use Site2	HU156	7.65198E-05	Open	No	No	No	Yes	No	No
Wells Outer Harbour B1	HU157	2.76587E-06	Open	No	No	No	Yes	No	No
Reedham Marina	HU159	1.1215E-07	Open	Yes	Yes	No	Yes	No	No
LOWESTOFT (CIRCULAR)	HU160	5.69858E-05	Closed	Yes	Yes	No	Yes	No	No
NORTH KILLINGHOME CARGO HAVEN	HU162	1.69947E-07	Closed	Yes	Yes	No	Yes	No	No
Boston 7	HU170	3.55037E-06	Open	Yes	Yes	No	Yes	No	No
CROSS SANDS	HU175	3.2457E-05	Closed	Yes	Yes	No	Yes	No	No
Cross sands 2	HU176	3.98628E-05	Open	Yes	Yes	No	Yes	No	No
NORTH WEST SHIPWASH	HU199	0.000378259	Closed	Yes	Yes	No	Yes	No	No
WEST OF INNER DROWSING BANK	HU200	0.003542806	Closed	Yes	Yes	No	Yes	No	No
CONOCO PIPELINE TRENCH	HU201	4.50333E-05	Closed	Yes	Yes	No	Yes	No	No
BBL PIPELINE TEMPORARY PRE- SWEEP	HU202	0.001497262	Closed	Yes	Yes	No	Yes	No	No
Babbage	HU203	0.000807233	Disused	Yes	Yes	No	Yes	No	No
Triton Knoll	HU204	0.019326514	Disused	Yes	Yes	No	Yes	No	No
Hornsea Disposal Area 1	HU205	0.000423652	Open	Yes	Yes	No	Yes	No	No
Hornsea Project One Subzone 1	HU206	0.055766221	Disused	Yes	Yes	No	Yes	No	No
Westermost Rough OWF	HU207	0.006395797	Disused	Yes	Yes	No	Yes	No	No
Burgh Castle Yacht Station	HU208	2.02606E-06	Open	Yes	Yes	No	Yes	No	No
Hornsea Disposal site area 2a	HU209	0.00648865	Disused	Yes	Yes	No	Yes	No	No
Hornsea Disposal site area 2b	HU210	0.000460535	Disused	Yes	Yes	No	Yes	No	No
Hornsea Disposal site subzone 2	HU211	0.063193863	Disused	Yes	Yes	No	Yes	No	No
EAOW3	HU212	0.123764141	Open	Yes	Yes	No	Yes	No	No
Norfolk Vanguard ECC 1	HU213	0.014516261	Open	Yes	Yes	No	Yes	No	No





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Norfolk Vanguard ECC 2	HU214	0.0127724	Open	Yes	Yes	No	Yes	No	No
Norfolk Vanguard East	HU215	0.03963534	Open	Yes	Yes	No	Yes	No	No
Norfolk Vanguard West	HU216	0.039413459	Open	Yes	Yes	No	Yes	No	No
Norfolk Boreas Array	HU217	0.097731175	Open	Yes	Yes	No	Yes	No	No
Iceni Disposal 1	HU218	0.000422686	Open	Yes	Yes	No	Yes	No	No
Iceni Disposal 2	HU219	0.001581722	Open	Yes	Yes	No	Yes	No	No
Iceni Disposal 3	HU220	0.000225181	Open	Yes	Yes	No	Yes	No	No
Iceni Disposal 4	HU221	0.002091194	Open	Yes	Yes	No	Yes	No	No
Iceni Disposal 5	HU222	0.000451918	Open	Yes	Yes	No	Yes	No	No
NeuConnect North Site	HU224	0.000314166	Open	Yes	Yes	No	Yes	No	No
FISHGUARD	IS010	8.81909E-05	Closed	No	No	No	Yes	No	No
Aberystwyth South Beach	IS013	0.0000	Open	No	No	No	Yes	No	No
Dolau Beach	IS014	6.70948E-07	Open	No	No	No	Yes	No	No
Newquay Track	IS015	1.64408E-07	Open	No	No	No	Yes	No	No
Spending Harbour	IS016	4.11655E-08	Open	No	No	No	Yes	No	No
South Beach	IS017	2.9165E-08	Open	No	No	No	Yes	No	No
Shell Lagoon, Llanbedr	IS018	5.74017E-07	Open	No	No	No	Yes	No	No
TREMADOC BAY	IS020	0.000442172	Closed	No	No	No	Yes	No	No
MENAI STRAIT	IS030	1.14E-05	Closed	No	No	No	Yes	No	No
Degabwy Beneficial Use	IS035	4.21154E-08	Open	No	No	No	Yes	No	No
HOLYHEAD DEEP	IS040	0.00778409	Closed	No	No	No	Yes	No	No
HOLYHEAD SOUTH	IS041	0.001667601	Closed	No	No	No	Yes	No	No
HOLHEAD EAST	IS042	0.001457478	Closed	No	No	No	Yes	No	No
Holyhead North	IS043	0.003846523	Open	No	No	No	Yes	No	No
POINT LYNAS	IS050	0.000364988	Closed	No	No	No	Yes	No	No
CONWY BAY	IS055	0.00145611	Closed	No	No	No	Yes	No	No
PUFFIN ISLAND	IS060	9.08079E-05	Closed	No	No	No	Yes	No	No
Conmy Beneficial Use	IS065	4.21174E-08	Open	No	No	No	Yes	No	No
CONWY BENEFICIAL USE	IS066	4.21179E-08	Open	No	No	No	Yes	No	No
LIVERPOOL BAY (SLUDGE)	IS070	0.007916116	Closed	No	No	No	Yes	No	No
LIVERPOOL BAY (SLUDGE) B	IS071	0.008399755	Closed	No	No	No	Yes	No	No
LIVERPOOL BAY (INDUSTRIAL)	IS080	0.002079932	Closed	No	No	No	Yes	No	No





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SITE I (NW LIGHT FLOAT)	IS090	0.000365159	Closed	No	No	No	Yes	No	No	
POINT OF AYR FORESHORE	IS095	1.68697E-07	Closed	No	No	No	Yes	No	No	
Broughton	IS099	9.80636E-07	Open	No	No	No	Yes	No	No	
DEE ESTUARY	IS100	1.45157E-05	Closed	No	No	No	Yes	No	No	
MOSTYN DEEP	IS101	0.000180408	Closed	No	No	No	Yes	No	No	
MOSTYN DEEP (MAINTENANCE)	IS102	8.92668E-05	Open	No	No	No	Yes	No	No	
Mostyn Breakwater	IS103	2.37885E-06	Open	No	No	No	Yes	No	No	
Mersey (Garston Site)	IS110	8.83869E-05	Open	No	No	No	Yes	No	No	
BRAMLEY MOORE DOCK	IS115	4.45165E-06	Closed	No	No	No	Yes	No	No	
NELSON DOCK	IS116	3.44935E-06	Closed	No	No	No	Yes	No	No	
Mersey (Mid-river Site)	IS120	5.82504E-05	Open	No	No	No	Yes	No	No	
MERSEY (MID- RIVER 2)	IS125	5.82233E-05	Closed	No	No	No	Yes	No	No	
Canning Half Tide	IS126	7.29493E-08	Open	No	No	No	Yes	No	No	
MERSEY OF BROMBOROUGH	IS127	6.54298E-05	Closed	No	No	No	Yes	No	No	
Mersey of Bromborough 2	IS128	6.54212E-05	Disused	No	No	No	Yes	No	No	
MERSEY (Liverpool Marina)	IS129	1.70123E-06	Open	No	No	No	Yes	No	No	
WALLASEY	IS130	1.69057E-07	Closed	No	No	No	Yes	No	No	
Formby & Taylors Point	IS132	-0.000591486	Disused	No	No	No	Yes	No	No	
MANX WATERS	IS134	9.07967E-05	Closed	No	No	No	Yes	No	No	
Burbo Bank Extension OWF	IS135	0.005370038	Open	No	No	No	Yes	No	No	
SITE Z	IS140	0.000182886	Open	No	No	No	Yes	No	No	
SITE Z (ORIGINAL AREA)	IS145	0.000106731	Closed	No	No	No	Yes	No	No	
BHP PIPELINE ROUTE	IS147	0.000710382	Closed	No	No	No	Yes	No	No	
BHP PIPELINE ROUTE	IS148	0.000730325	Closed	No	No	No	Yes	No	No	
BHP PIPELINE ROUTE	IS149	0.000275291	Closed	No	No	No	Yes	No	No	
SITE Y	IS150	0.001993178	Open	No	No	No	Yes	No	No	
PRESTON	IS160	0.000366848	Closed	No	No	No	Yes	No	No	
East Lytham	IS163	8.59462E-07	Open	No	No	No	Yes	No	No	
RIBBLE LINK	IS164	4.25766E-08	Disused	No	No	No	Yes	No	No	





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SAVICK BROOK	IS165	1.70321E-07	Disused	No	No	No	Yes	No	No
MORECAMBE BAY: LUNE DEEP	IS170	0.000236372	Open	No	No	No	Yes	No	No
FLEETWOOD CHANNEL	IS171	1.47073E-05	Closed	No	No	No	Yes	No	No
RIVER WYRE ESTUARY	IS175	1.47073E-05	Closed	No	No	No	Yes	No	No
BARROW A	IS180	0.00018471	Disused	No	No	No	Yes	No	No
LUNE RIVER	IS190	1.71275E-07	Closed	No	No	No	Yes	No	No
Glasson Dock	IS191	4.37357E-08	Closed	No	No	No	Yes	No	No
Lune River B	IS192	5.86991E-06	Open	No	No	No	Yes	No	No
Gateway Gas Storage Project	IS195	0.002872674	Disused	No	No	No	Yes	No	No
MORECAMBE BAY B	IS200	5.90284E-05	Open	No	No	No	Yes	No	No
Barrow D	IS205	0.000819177	Open	No	No	No	Yes	No	No
BARROW B	IS210	9.22857E-05	Closed	No	No	No	Yes	No	No
Walney OWF	IS215	0.02011652	Disused	No	No	No	Yes	No	No
SALTOM BAY	IS220	1.73519E-07	Closed	No	No	No	Yes	No	No
WHITEHAVEN	IS230	9.36092E-05	Closed	No	No	No	Yes	No	No
Harrington Harbour	IS231	1.34341E-06	Disused	No	No	No	Yes	No	No
SOLWAY FIRTH	IS240	0.000375634	Open	No	No	No	Yes	No	No
WORKINGTON ANCHORAGE	IS241	0.000240168	Open	No	No	No	Yes	No	No
Maryport Harbour Dispersive Site B	IS244	4.35721E-08	Disused	No	No	No	Yes	No	No
MARYPORT HARBOUR DISPERSIVE	IS245	4.35721E-08	Closed	No	No	No	Yes	No	No
SILLOTH	IS250	4.3546E-05	Closed	No	No	No	Yes	No	No
SILLOTH B	IS251	4.35353E-05	Open	No	No	No	Yes	No	No
BEAUFORTS DYKE	IS260	0.002081064	Closed	No	No	No	Yes	No	No
MIDDLE DEEP, MERSEY	IS270	1.68618E-07	Closed	No	No	No	Yes	No	No
BEAUFORTS DYKE, SCOTLAND	IS280	0.088493863	Closed	No	No	No	Yes	No	No
DRUMMORE	IS285	4.6456E-06	Closed	No	No	No	Yes	No	No
DRUMMORE A	IS286	6.0039E-07	Closed	No	No	No	Yes	No	No
DRUMMORE B	IS287	6.06451E-07	Closed	No	No	No	Yes	No	No
DRUMMORE C	IS288	7.80783E-07	Closed	No	No	No	Yes	No	No
PORTPATRICK	IS290	3.8547E-05	Closed	No	No	No	Yes	No	No
BURROW HEAD B	IS300	8.35216E-05	Closed	No	No	No	Yes	No	No
BURROW HEAD A	IS310	9.62773E-05	Closed	No	No	No	Yes	No	No





				Within Marine Mammal Screening Area?						
Name of Project	Reference	Area (km²)	Status	HP NS	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	
West Balnapaling	IS320	1.25E-07	Open	No	No	No	Yes	No	No	
Douglas (I.O.M)	IS400	9.25209E-05	Open	No	No	No	Yes	No	No	
RAMSEY (I.O.M)	IS410	9.31668E-05	Closed	No	No	No	Yes	No	No	
PEEL (I.O.M)	IS420	9.27427E-05	Open	No	No	No	Yes	No	No	
PORT ST. MARY (I.O.M)	IS430	9.24105E-05	Closed	No	No	No	Yes	No	No	
MANX WATRS (fish waste)	IS435	9.07967E-05	Closed	No	No	No	Yes	No	No	
CASTLETOWN BAY (I.O.M)	IS440	9.22637E-05	Closed	No	No	No	Yes	No	No	
Douglas Harbour (I.O.M)	IS445	0.000181179	Open	No	No	No	Yes	No	No	
LAXEY BAY (I.O.M)	IS450	9.26685E-05	Closed	No	No	No	Yes	No	No	
ISLE OF MAN SITE C	IS460	0.000123139	Closed	No	No	No	Yes	No	No	
BLACK HEAD	IS500	0.000376216	Closed	No	No	No	Yes	No	No	
EDEN	IS510	9.38916E-05	Closed	No	No	No	Yes	No	No	
CARRICKFERGUS	IS520	9.38611E-05	Closed	No	No	No	Yes	No	No	
FOLLY ROAD	IS530	9.3796E-05	Closed	No	No	No	Yes	No	No	
BELFAST DREDGINGS	IS540	0.000138462	Closed	No	No	No	Yes	No	No	
BELFAST RECLAMATION	IS570	3.69876E-05	Closed	No	No	No	Yes	No	No	
BANGOR	IS580	9.3758E-05	Closed	No	No	No	Yes	No	No	
BELFAST SLUDGE	IS590	0.000811948	Closed	No	No	No	Yes	No	No	
Belfast Dredgings C	IS591	9.39605E-05	Open	No	No	No	Yes	No	No	
BELFAST DREDGINGS B	IS595	9.38381E-05	Closed	No	No	No	Yes	No	No	
COPELAND ISLAND	IS600	9.3758E-05	Closed	No	No	No	Yes	No	No	
ARDMILLON	IS610	9.33295E-05	Closed	No	No	No	Yes	No	No	
PORTAVOGIE	IS620	9.33033E-05	Open	No	No	No	Yes	No	No	
DUNDRUM BAY	IS630	9.27129E-05	Closed	No	No	No	Yes	No	No	
ARDGLASS	IS635	9.26907E-05	Closed	No	No	No	Yes	No	No	
ARDGLASS B	IS636	9.27389E-05	Disused	No	No	No	Yes	No	No	
NEWCASTLE (NI)	IS640	9.2676E-05	Closed	No	No	No	Yes	No	No	
Kilkeel	IS650	0.000369537	Open	No	No	No	Yes	No	No	
CARLINGFORD	IS660	9.23957E-05	Closed	No	No	No	Yes	No	No	
WARRENPOINT	IS670	9.22455E-05	Closed	No	No	No	Yes	No	No	
WARRENPOINT B	IS671	9.21832E-05	Open	No	No	No	Yes	No	No	
Foul Ground	JE001	0.000153	Open	No	No	No	Yes	No	No	
Grouville Bay	JE002	5.32071E-05	Open	No	No	No	No	No	No	
PADSTOW BAY	LU010	8.55117E-05	Open	No	No	No	Yes	No	No	





				Within Marine Mammal Screening Area?					
Name of Project	Reference	Area (km²)	Status	HP NS MU	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS
HARTLAND POINT	LU020	0.00553523	Closed	No	No	No	Yes	No	No
MORTE BAY	LU030	0.000346409	Closed	No	No	No	Yes	No	No
MILFORD HAVEN INDUSTRIAL	LU040	0.041649819	Closed	No	No	No	Yes	No	No
BRISTOL CHANNEL- OLD	LU047	0.001392115	Closed	No	No	No	Yes	No	No
BRISTOL CHANNEL (ROUGH WEATHER)	LU050	0.001392365	Closed	No	No	No	Yes	No	No
WATCHET HARBOUR	LU055	1.79321E-06	Open	No	No	No	Yes	No	No
RIVER PARRETT	LU057	4.0176E-08	Closed	No	No	No	Yes	No	No
BRISTOL DEEP	LU060	0.000154968	Closed	No	No	No	Yes	No	No
Bristol Holm Deep	LU065	0.000802522	Disused	No	No	No	Yes	No	No
Clevedon Lake	LU067	2.57966E-07	Disused	No	No	No	Yes	No	No
Clevedon Lake	LU068	7.75E-07	Open	No	No	No	Yes	No	No
PORTISHEAD	LU070	2.55193E-05	Open	No	No	No	Yes	No	No
Avonmouth (Inner)	LU080	6.97102E-05	Open	No	No	No	Yes	No	No
ROYAL PORTBURY ENTRANCE	LU083	2.40081E-05	Disused	No	No	No	Yes	No	No
ROYAL PORTBURY PIER	LU084	3.7227E-06	Open	No	No	No	Yes	No	No
ROYAL EDWARD ENTRANCE	LU085	5.6666E-06	Open	No	No	No	Yes	No	No
Bristol City Docks Entrance	LU086	4.90351E-06	Disused	No	No	No	Yes	No	No
OLDBURY POWER STATION	LU087	1.40014E-06	Disused	No	No	No	Yes	No	No
Oldbury Power Station B	LU088	5.02503E-06	Disused	No	No	No	Yes	No	No
AVONMOUTH (OUTER)	LU090	5.13825E-05	Closed	No	No	No	Yes	No	No
DENNY ISLAND BEACON	LU100	1.8834E-05	Closed	No	No	No	Yes	No	No
NEW DENNY ISLAND	LU101	1.2739E-05	Closed	No	No	No	Yes	No	No
Cardiff Grounds	LU110	0.000274504	Open	No	No	No	Yes	No	No
CARDIFF OUTFALL TEMPORARY DEPO	LU111	0.000105995	Closed	No	No	No	Yes	No	No
Merkur Buoy	LU115	2.49821E-06	Open	No	No	No	Yes	No	No
SWANSEA BAY (INNER)	LU120	0.000352326	Closed	No	No	No	Yes	No	No
Monkstone Cill	LU125	8.81014E-08	Disused	No	No	No	Yes	No	No
SWANSEA BAY (OUTER)	LU130	0.000785607	Open	No	No	No	Yes	No	No
NEWPORT	LU140	6.14819E-05	Open	No	No	No	Yes	No	No





				Within Marine Mammal Screening Area?						
Name of Project	Reference	Area (km²)	Status	HP NS	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	
Burry Port	LU145	2.97118E-05	Disused	No	No	No	Yes	No	No	
MUMBLES HEAD	LU150	1.62035E-07	Closed	No	No	No	Yes	No	No	
BRISTOL CHANNEL	LU160	0.001393368	Closed	No	No	No	Yes	No	No	
Milford Haven 2	LU168	0.000612688	Open	No	No	No	Yes	No	No	
Milford Haven 3	LU169	0.000349543	Open	No	No	No	Yes	No	No	
MILFORD HAVEN	LU170	0.000512186	Closed	No	No	No	Yes	No	No	
ST ANNS HEAD	LU180	1.80916E-05	Closed	No	No	No	Yes	No	No	
NEYLAND (OFF MILFORD HAVEN)	LU190	1.69199E-05	Open	No	No	No	Yes	No	No	
WESTON FORESHORE	LU191	3.02809E-06	Disused	No	No	No	Yes	No	No	
WESTON FORESHORE 2	LU192	6.96162E-08	Disused	No	No	No	Yes	No	No	
Weston Foreshore 3	LU193	2.27052E-06	Open	No	No	No	Yes	No	No	
USKMOUTH	LU200	1.39105E-07	Closed	No	No	No	Yes	No	No	
Hinkley Outfalls	LU201	1.9061E-06	Disused	No	No	No	Yes	No	No	
Hinkley C	LU202	-1.00766E-05	Disused	No	No	No	Yes	No	No	
Hinkley Intake 1	LU203	1.43416E-06	Disused	No	No	No	Yes	No	No	
Hinkley Intake 2	LU204	1.44231E-06	Disused	No	No	No	Yes	No	No	
Hinkley Intake 3	LU205	1.44175E-06	Disused	No	No	No	Yes	No	No	
Hinkley Intake 4	LU206	1.44175E-06	Disused	No	No	No	Yes	No	No	
Kirkcudbright	MA01		Open	No	No	No	Yes	No	No	
NORTH CHANNEL, SCOTLAND	MA010	0.00037745	Open	No	No	No	Yes	No	No	
Kirkcudbright	MA012	2.42667E-06	Open	No	No	No	Yes	No	No	
STRANRAER	MA015	0.00037745	Closed	No	No	No	Yes	No	No	
ROTHESAY BAY	MA016	3.025E-05	Open	No	No	No	Yes	No	No	
BRODICK	MA017	9.59967E-05	Closed	No	No	No	Yes	No	No	
GARROCH HEAD	MA018	0.000384713	Disused	No	No	No	Yes	No	No	
BIRCH POINT	MA019	9.59967E-05	Closed	No	No	No	Yes	No	No	
CLYDE	MA020	0.000387713	Closed	No	No	No	Yes	No	No	
Cloch Point	MA021	6.19703E-05	Open	No	No	No	Yes	No	No	
HUNTERSTON	MA023	9.62972E-05	Closed	No	No	No	Yes	No	No	
Girvan	MA025	9.51168E-05	Open	No	No	No	Yes	No	No	
GIRVAN 2	MA026	9.51108E-05	Closed	No	No	No	Yes	No	No	
PORT ELLEN	MA030	2.5926E-05	Open	No	No	No	Yes	No	No	
TAYINLOAN	MA040	3.35065E-05	Closed	No	No	No	Yes	No	No	
Ayr Bay	MA050	9.57205E-05	Open	No	No	No	Yes	No	No	
AYR BAY B	MA051	0.000191645	Closed	No	No	No	Yes	No	No	
Campbeltown	MA060	3.91233E-05	Disused	No	No	No	Yes	No	No	





				Within Marine Mammal Screening Area?						
Name of Project	Reference	Area (km²)	Status	HP NS	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	
LOCH STAOSNAIG	MA070	9.9136E-06	Closed	No	No	No	Yes	No	No	
TIREE	MA080	3.91511E-06	Closed	No	No	No	Yes	No	No	
Lossiemouth	MA090	3.29639E-06	Open	No	No	No	Yes	No	No	
River Dee	MA110	1.11111E-07	Open	No	No	No	Yes	No	No	
LOUGH FOYLE	MA500	9.48803E-05	Closed	No	No	No	Yes	No	No	
LOUGH FOYLE B	MA501	9.48763E-05	Closed	No	No	No	Yes	No	No	
McKinneys Bank	MA502	4.02399E-05	Disused	No	No	No	Yes	No	No	
PORTSTEWART BAY	MA520	0.000380137	Closed	No	No	No	Yes	No	No	
COLERAINE	MA540	0.000381372	Closed	No	No	No	Yes	No	No	
PORTSTEWART BAY B	MA545	0.000381133	Disused	No	No	No	Yes	No	No	
RATHLIN ISLAND A	MA550	9.52077E-05	Closed	No	No	No	Yes	No	No	
RATHLIN ISLAND B	MA560	9.52158E-05	Closed	No	No	No	Yes	No	No	
RATHLIN ISLAND C	MA565	9.5188E-05	Closed	No	No	No	Yes	No	No	
BALLYCASTLE BAY	MA570	9.50457E-05	Closed	No	No	No	Yes	No	No	
BALLYCASTLE BAY B	MA571	9.50457E-05	Closed	No	No	No	Yes	No	No	
CARNLOUGH	MA580	9.45206E-05	Closed	No	No	No	Yes	No	No	
CARNLOUGH A	MA581	9.45167E-05	Closed	No	No	No	Yes	No	No	
CARNLOUGH B	MA585	9.4509E-05	Closed	No	No	No	Yes	No	No	
LARNE	MA600	9.42183E-05	Closed	No	No	No	Yes	No	No	
LARNE B	MA601	9.42531E-05	Closed	No	No	No	Yes	No	No	
LARNE A	MA605	9.42531E-05	Disused	No	No	No	Yes	No	No	
HERBRANDSTON MARINE, MILFORD HAVEN	MH001	1.62944E-07	Closed	No	No	No	Yes	No	No	
BRITNED	NS100	0.006908757	Closed	Yes	Yes	No	Yes	No	No	
NORTH SEA DREDGE TEST	NS111	0.005668001	Closed	Yes	Yes	No	Yes	No	No	
CASTLE POINT	PL005	1.35787E-05	Closed	No	No	No	Yes	No	No	
KINGSWEAR	PL007	1.35796E-05	Closed	No	No	No	Yes	No	No	
START BAY	PL010	0.000177403	Closed	No	No	No	Yes	No	No	
SALCOMBE A	PL015	4.00323E-07	Closed	No	No	No	Yes	No	No	
SALCOMBE B	PL018	7.49176E-07	Closed	No	No	No	Yes	No	No	
BOLT HEAD	PL019	5.09306E-06	Closed	No	No	No	Yes	No	No	
PLYMOUTH	PL020	0.002011757	Closed	No	No	No	Yes	No	No	
FORT PICKLECOMBE Y	PL021	2.79104E-08	Disused	No	No	No	Yes	No	No	
Fort Picklecombe Y	PL022	1.36584E-07	Disused	No	No	No	Yes	No	No	
WESTON MILL LAKE	PL025	1.45546E-06	Closed	No	No	No	Yes	No	No	





				Within M	arine Mamr	nal Screeni	ng Area?		
Name of Project	Reference	Area (km²)	Status	HP NS MU	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS
RAME HEAD	PL030	0.000340085	Closed	No	No	No	Yes	No	No
RAME HEAD SOUTH	PL031	0.000176007	Open	No	No	No	Yes	No	No
Plymouth Deep	PL035	0.000189281	Open	No	No	No	Yes	No	No
EDDYSTON	PL040	1.35289E-05	Closed	No	No	No	Yes	No	No
RAME HEAD A	PL050	0.000122423	Closed	No	No	No	Yes	No	No
Lantic Bay	PL060	0.000200964	Open	No	No	No	Yes	No	No
Truro	PL069	1.59966E-07	Open	No	No	No	Yes	No	No
FALMOUTH BAY	PL070	0.000338766	Closed	No	No	No	Yes	No	No
TRURO RIVER	PL071	3.38251E-06	Closed	No	No	No	Yes	No	No
FALMOUTH MARINA	PL072	4.01087E-07	Disused	No	No	No	Yes	No	No
Falmouth Bay (B)	PL075	0.000131808	Open	No	No	No	Yes	No	No
FALMOUTH BAY	PL080	0.002094699	Closed	No	No	No	Yes	No	No
GERRAN CORRAS CREEK, FALMOUTH	PL090	5.4036E-07	Closed	No	No	No	Yes	No	No
Marazion Beach	PL095	1.69815E-06	Disused	No	No	No	Yes	No	No
MOUNTS BAY	PL100	8.46111E-05	Open	No	No	No	Yes	No	No
NEWLYN HARBOUR	PL110	3.90991E-05	Closed	No	No	No	Yes	No	No
WEYMOUTH	PO010	0.000432666	Closed	No	No	No	Yes	No	No
WEST BAY	PO020	0.000342626	Closed	No	No	No	Yes	No	No
LYME BAY	PO025	1.36877E-05	Closed	No	No	No	Yes	No	No
Seaton	PO026	5.63247E-07	Open	No	No	No	Yes	No	No
LYME BAY 1	PO030	0.023014506	Closed	No	No	No	Yes	No	No
DARTMOUTH PSA	PO040	0.002860275	Closed	No	No	No	Yes	No	No
LYME BAY 2	PO050	0.001366827	Open	No	No	No	Yes	No	No
EXE ESTUARY	PO060	3.40882E-06	Closed	No	No	No	Yes	No	No
SPREY POINT	PO070	8.55193E-05	Open	No	No	No	Yes	No	No
SPREY POINT (AMENDED)	PO075	0.000122838	Closed	No	No	No	Yes	No	No
Teignmouth Ness long sea outfall	PO076	7.18515E-06	Closed	No	No	No	Yes	No	No
THE SALTY, TEIGNMOUTH	PO080	1.58559E-07	Closed	No	No	No	Yes	No	No
TEIGNMOUTH RAILWAY EMBANKMENT	PO085	1.58571E-07	Closed	No	No	No	Yes	No	No
Bundle Head	PO090	3.97449E-05	Disused	No	No	No	Yes	No	No
MEADFOOT BEACH	PO100	1.51457E-05	Closed	No	No	No	Yes	No	No
GROVE POINT	PO110	0.000341871	Closed	No	No	No	Yes	No	No
Deep Water Relocation	PO111	1.23771E-05	Open	No	No	No	Yes	No	No





				Within Marine Mammal Screening Area?					
Name of Project	Reference	Area (km²)	Status	HP NS MU	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS
Portland Harbour Deep Water Relocation	PO112	1.77936E-05	Open	No	No	No	Yes	No	No
ST HELIER	PO500	8.29664E-05	Closed	No	No	No	Yes	No	No
St.Aubins	PO501	2.39537E-07	Open	No	No	No	Yes	No	No
St. Aubins East	PO502	1.71388E-05	Disused	No	No	No	Yes	No	No
St Bredlades Bay	PO503	1.81549E-05	Open	No	No	No	Yes	No	No
Greve d'Azette	PO504	7.86127E-06	Open	No	No	No	Yes	No	No
Lowestoft circular north	TH005	5.69858E-05	Open	Yes	Yes	No	Yes	No	No
LOWESTOFT (SQUARE)	TH010	4.49225E-05	Closed	Yes	Yes	No	Yes	No	No
Lowestoft marina temporary disposal site	TH011	2.5E-08	Open	Yes	Yes	No	Yes	No	No
SOUTHWOLD HARBOUR	TH020	1.648E-07	Closed	Yes	Yes	No	Yes	No	No
Loders cut island	TH021	-5.63266E-09	Disused	Yes	Yes	No	Yes	No	No
Stonner point	TH022	9.24797E-06	Disused	Yes	Yes	No	Yes	No	No
East Anglia One	TH023	0.017008257	Open	Yes	Yes	No	Yes	No	No
WARREN SPRING EXPTL AREA 2/1	TH024	0.069448044	Closed	Yes	Yes	No	Yes	No	No
WARREN SPRING EXPTL AREA 2	TH025	0.047243672	Closed	Yes	Yes	No	Yes	No	No
AEA EXPERIMENTAL SITE	TH026	0.0222	Closed	Yes	Yes	No	Yes	No	No
Harwich Haven	TH027	-8.35736E-05	Open	Yes	Yes	No	Yes	No	No
HARWICH ROCK DUMP	TH030	7.04666E-05	Closed	Yes	Yes	No	Yes	No	No
Ipswich fox	TH031	2.15603E-06	Disused	Yes	Yes	No	Yes	No	No
Orwell Yacht Club	TH032	4.65154E-08	Open	Yes	Yes	No	Yes	No	No
River orwell (abp)	TH034	0.000170561	Open	Yes	Yes	No	Yes	No	No
RIVER STOUR	TH035	4.5027E-05	Closed	Yes	Yes	No	Yes	No	No
RIVER ORWELL	TH036	1.78715E-05	Closed	Yes	Yes	No	Yes	No	No
Orwell west	TH037	4.9446E-06	Disused	Yes	Yes	No	Yes	No	No
ROUGHS TOWER M	TH038	2.76477E-05	Closed	Yes	Yes	No	Yes	No	No
ROUGHS TOWER D	TH039	0.000107061	Closed	Yes	Yes	No	Yes	No	No
ROUGHS TOWER L	TH040	0.000408861	Closed	Yes	Yes	No	Yes	No	No
ROUGHS TOWER C	TH041	0.000175097	Closed	Yes	Yes	No	Yes	No	No
ROUGHS TOWER	TH042	0.00064753	Closed	Yes	Yes	No	Yes	No	No
ROUGHS TOWER B (CIRCULAR)	TH043	8.78316E-05	Closed	Yes	Yes	No	Yes	No	No





				Within M	arine Mamr	nal Scree <u>ni</u>	ng Area?		
Name of Project	Reference	Area (km²)	Status	HP NS	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS
ROUGHS TOWER A	TH044	0.000570216	Closed	Yes	Yes	No	Yes	No	No
ROUGHS TOWER EXTENSION	TH045	0.001156151	Closed	Yes	Yes	No	Yes	No	No
THE WELL	TH046	2.78018E-05	Disused	Yes	Yes	No	Yes	No	No
TOLLESBURY SALTINGS	TH047	1.62715E-07	Closed	Yes	Yes	No	Yes	No	No
UPPER BLACKWATER ESTUARY	TH048	1.25666E-06	Closed	Yes	Yes	No	Yes	No	No
ROUGHS TOWER 'E'	TH049	0.000854424	Closed	Yes	Yes	No	Yes	No	No
BARROW DEEP	TH050	0.000749929	Closed	Yes	Yes	No	Yes	No	No
BARROW DEEP B	TH051	0.000744748	Closed	Yes	Yes	No	Yes	No	No
Inner gabbard	TH052	5.20799E-05	Open	Yes	Yes	No	Yes	No	No
Orwell east	TH053	6.4167E-06	Disused	Yes	Yes	No	Yes	No	No
AREA 108/3	TH054	0.004309824	Closed	Yes	Yes	No	Yes	No	No
North west shipwash	TH055	0.000377741	Disused	Yes	Yes	No	Yes	No	No
Inner gabbard east	TH056	0.000293871	Open	Yes	Yes	No	Yes	No	No
Galloper owf	TH057	0.028629811	Open	Yes	Yes	No	Yes	No	No
Northey Island	TH058	1.53704E-05	Open	Yes	Yes	No	Yes	No	No
NeuConnect Disposal Site 1	TH059	9.88077E-05	Open	Yes	Yes	No	Yes	No	No
RIVER CROUCH	TH060	1.25396E-06	Closed	Yes	Yes	No	Yes	No	No
WALLASEA ISLAND	TH061	4.15673E-06	Closed	Yes	Yes	No	Yes	No	No
MALDON SALTINGS	TH062	4.07929E-06	Closed	Yes	Yes	No	Yes	No	No
MALDON SALTINGS 2	TH063	1.44318E-06	Closed	Yes	Yes	No	Yes	No	No
Maldon saltings 3	TH064	-4.78323E-06	Open	Yes	Yes	No	Yes	No	No
BRIDGEMARSH ISLAND	TH065	1.48531E-06	Closed	Yes	Yes	No	Yes	No	No
Essex Marina	TH066	0.000015685	Closed	Yes	Yes	No	Yes	No	No
NeuConnect Disposal Site 2	TH067	0.000102499	Open	Yes	Yes	No	Yes	No	No
NeuConnect South Site	TH068	0.002986091	Open	Yes	Yes	No	Yes	No	No
NeuConnect Lower Mid Site	TH069	0.001615937	Open	Yes	Yes	No	Yes	No	No
South falls	TH070	0.003469415	Open	Yes	Yes	No	Yes	No	No
SOUTHEND ON SEA BEACH	TH071	1.61936E-07	Closed	Yes	Yes	No	Yes	No	No
Whitstable c	TH073	1.38806E-05	Open	Yes	Yes	No	Yes	No	No
NeuConnect Upper Mid Site	TH074	0.002949464	Open	Yes	Yes	No	Yes	No	No





				Within M	arine Mamr	nal Screeni	al Screening Area?			
Name of Project	Reference	Area (km²)	Status	HP NS	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	
WARREN SPRING EXPTL AREA 1	TH075	0.194473157	Closed	Yes	Yes	No	Yes	No	No	
North Edinburgh channel	TH080	0.000277843	Disused	Yes	Yes	No	Yes	No	No	
Mercator Disposal	TH081	0.000521518	Open	Yes	Yes	No	Yes	No	No	
SHOEBURYNESS	TH090	1.61853E-07	Closed	Yes	Yes	No	Yes	No	No	
Plantation wharf	TH095	2.34244E-07	Disused	Yes	Yes	No	Yes	No	No	
Putney Embankment	TH096	3.75971E-07	Open	Yes	Yes	No	Yes	No	No	
Tilbury Tunnel outfall	TH099	1.3639E-09	Open	Yes	Yes	No	Yes	No	No	
MUCKING AND LEIGH MIDDLE	TH100	1.61853E-07	Closed	Yes	Yes	No	Yes	No	No	
MEDWAY APPROACH CHANNEL	TH101	1.39092E-05	Closed	Yes	Yes	No	Yes	No	No	
MEDWAY APPROACH CHANNEL B	TH102	4.59474E-05	Closed	Yes	Yes	No	Yes	No	No	
GARRISON POINT	TH103	1.00653E-05	Closed	Yes	Yes	No	Yes	No	No	
THANET	TH110	0.001249866	Closed	Yes	Yes	No	Yes	No	No	
WHITSTABLE	TH120	2.22037E-05	Closed	Yes	Yes	No	Yes	No	No	
WHITSTABLE B	TH125	3.12728E-05	Closed	Yes	Yes	No	Yes	No	No	
NORTH GOODWIN	TH130	0.000347954	Closed	Yes	Yes	No	Yes	No	No	
PEGWELL BAY B	TH135	1.38662E-05	Closed	Yes	Yes	No	Yes	No	No	
Pegwell Bay	TH140	8.68112E-05	Open	Yes	Yes	No	Yes	No	No	
PORT RAMSGATE	TH145	1.38635E-05	Closed	Yes	Yes	No	Yes	No	No	
RAMSGATE HARBOUR SITE A	TH146	1.64445E-06	Disused	Yes	Yes	No	Yes	No	No	
RAMSGATE HARBOUR SITE B	TH147	1.6308E-06	Disused	Yes	Yes	No	Yes	No	No	
Nemo Disposal site A	TH150	0.000390487	Open	Yes	Yes	No	Yes	No	No	
Nemo Disposal site B	TH151	0.000303509	Open	Yes	Yes	No	Yes	No	No	
Nemo Disposal Site C	TH152	0.000222778	Closed	Yes	Yes	No	Yes	No	No	
TEOW Disposal Site 1	TH153	0.004202868	Open	Yes	Yes	No	Yes	No	No	
TEOW Disposal Site 2	TH154	0.00469067	Open	Yes	Yes	No	Yes	No	No	
TEOW Disposal Site 3	TH155	0.002432046	Open	Yes	Yes	No	Yes	No	No	
Gridlink East Site	TH156	0.001941548	Open	Yes	Yes	No	Yes	No	No	
Gridlink West Site	TH157	0.008422533	Open	Yes	Yes	No	Yes	No	No	
STOUR WATER COLUMN 2	TH200	4.88175E-05	Closed	Yes	Yes	No	Yes	No	No	
STOUR WATER COLUMN 3	TH201	1.4998E-05	Closed	Yes	Yes	No	Yes	No	No	
ERWARTON BAY	TH202	2.54589E-05	Closed	Yes	Yes	No	Yes	No	No	
COPPERAS BAY	TH203	3.44213E-05	Closed	Yes	Yes	No	Yes	No	No	





				Within Ma	arine Mamn	nal Screenii	ng Area?		
Name of Project	Reference	Area (km²)	Status	HP NS MU	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS
COPPERAS BAY 2	TH204	8.13693E-06	Closed	Yes	Yes	No	Yes	No	No
HOLBROOK BAY	TH205	1.54943E-05	Closed	Yes	Yes	No	Yes	No	No
JACQUES BAY	TH206	6.74165E-06	Closed	Yes	Yes	No	Yes	No	No
Erwarton East	TH207	5.2017E-06	Disused	Yes	Yes	No	Yes	No	No
Copperas East	TH208	6.90153E-06	Disused	Yes	Yes	No	Yes	No	No
Copperas West	TH209	6.29022E-06	Disused	Yes	Yes	No	Yes	No	No
HOLBROOK BAY 1	TH210	5.84899E-06	Disused	Yes	Yes	No	Yes	No	No
River Stour (area 1 subtidal s	TH211	1.33798E-05	Disused	Yes	Yes	No	Yes	No	No
ALRESFORD SALTINGS	TH212	0.0000	Disused	Yes	Yes	No	Yes	No	No
Wrabness Beach	TH213	1.1322E-06	Disused	Yes	Yes	No	Yes	No	No
TITCHMARSH SALTINGS	TH214	1.99134E-06	Disused	Yes	Yes	No	Yes	No	No
Wivenhoe Overflow	TH215	5.60131E-07	Disused	Yes	Yes	No	Yes	No	No
Copperas	TH216	4.66988E-05	Open	Yes	Yes	No	Yes	No	No
Erwarton Track	TH217	1.97011E-05	Open	Yes	Yes	No	Yes	No	No
Orwell West Track	TH218	8.60348E-06	Open	Yes	Yes	No	Yes	No	No
Orwell East Track	TH219	8.63111E-06	Open	Yes	Yes	No	Yes	No	No
EA One Route EC-1	TH220	2.86794E-05	Open	Yes	Yes	No	Yes	No	No
EA One Route EC-2	TH221	0.000262745	Open	Yes	Yes	No	Yes	No	No
EA One Route EC-3	TH222	0.00039288	Open	Yes	Yes	No	Yes	No	No
EA One Route EC-4	TH223	0.000412895	Open	Yes	Yes	No	Yes	No	No
EA One Route EC-5	TH224	0.000426264	Open	Yes	Yes	No	Yes	No	No
Levington Site 1	TH225	2.6E-07	Open	Yes	Yes	No	Yes	No	No
Levington Site 2	TH226	1.6E-07	Open	Yes	Yes	No	Yes	No	No
Levington Site 3	TH227	1.415E-06	Open	Yes	Yes	No	Yes	No	No
Levington Site 4	TH228	6E-07	Open	Yes	Yes	No	Yes	No	No
Wrabness Beach East	TH229	4.77325E-07	Open	Yes	Yes	No	Yes	No	No
Horsey	TH230	8.53431E-06	Open	Yes	Yes	No	Yes	No	No
SEAHOUSES	TY010	1.5316E-05	Closed	Yes	Yes	No	Yes	No	No
AMBLE	TY020	0.0015	Closed	Yes	Yes	No	Yes	No	No
WARKWORTH HARBOUR	TY021	7.91953E-08	Closed	Yes	Yes	No	Yes	No	No
Amble Marina Outfall	TY022	4.42498E-08	Disused	Yes	Yes	No	Yes	No	No
Coquet Island	TY025	0.000111258	Disused	Yes	Yes	No	Yes	No	No
LYNEMOUTH SOUTH SHORE	TY030	1.76408E-07	Closed	Yes	Yes	No	Yes	No	No
ELLINGTON SOUTH FORESHORE	TY031	4.62813E-06	Closed	Yes	Yes	No	Yes	No	No





				Within Marine Mammal Screening Area?								
Name of Project	Reference	Area (km²)	Status	HP NS	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS			
ELLINGTON FORESHORE	TY032	3.95824E-06	Closed	Yes	Yes	No	Yes	No	No			
BLYTH B	TY040	0.000271807	Closed	Yes	Yes	No	Yes	No	No			
BLYTH A	TY041	0.000371133	Closed	Yes	Yes	No	Yes	No	No			
Blyth A	TY042	0.001750468	Disused	Yes	Yes	No	Yes	No	No			
Blyth A&B	TY042		Open	Yes	Yes	No	Yes	No	No			
Blyth B	TY042		Disused	Yes	Yes	No	Yes	No	No			
Blyth OWF Demo	TY043	0.000668992	Open	Yes	Yes	No	Yes	No	No			
TYNE INDUSTRIAL	TY050	0.003329989	Closed	Yes	Yes	No	Yes	No	No			
TYNE	TY051	0.011102091	Closed	Yes	Yes	No	Yes	No	No			
HOWDON AREA	TY060	0.001036173	Closed	Yes	Yes	No	Yes	No	No			
North Tyne	TY070	0.000374653	Open	Yes	Yes	No	Yes	No	No			
SOUTER POINT (INNER)	TY080	0.00033182	Closed	Yes	Yes	No	Yes	No	No			
Souter Point (outer)	TY081	0.001012674	Open	Yes	Yes	No	Yes	No	No			
Tyne Tunnel	TY085	5.93031E-06	Disused	Yes	Yes	No	Yes	No	No			
Sunderland	TY090	0.00012451	Open	Yes	Yes	No	Yes	No	No			
HARTLEPOOL	TY100	0.012223628	Closed	Yes	Yes	No	Yes	No	No			
TEES (INDUSTRIAL)	TY110	0.023339933	Closed	Yes	Yes	No	Yes	No	No			
SEAHAM FORESHORE	TY120	8.95629E-06	Closed	Yes	Yes	No	Yes	No	No			
BANKSIDE SPOIL TIP	TY121	3.00799E-06	Closed	Yes	Yes	No	Yes	No	No			
EASINGTON FORESHORE	TY122	1.74588E-07	Closed	Yes	Yes	No	Yes	No	No			
Noses Point	TY130	9.41219E-05	Open	Yes	Yes	No	Yes	No	No			
TEES BAY B	TY140	0.001504668	Closed	Yes	Yes	No	Yes	No	No			
Tees Bay C	TY150	0.000421362	Open	Yes	Yes	No	Yes	No	No			
AMOCO CATS PIPELINE TRENCH	TY155	9.74485E-05	Closed	Yes	Yes	No	Yes	No	No			
AMOCO CATS PIPELINE TRENCH	TY156	0.000101616	Closed	Yes	Yes	No	Yes	No	No			
Tees Upriver	TY157	1.60363E-06	Open	Yes	Yes	No	Yes	No	No			
Teesport dock and Tees Container Terminal	TY158	4.16806E-05	Open	Yes	Yes	No	Yes	No	No			
Tees Bay A	TY160	0.000597665	Open	Yes	Yes	No	Yes	No	No			
FORESHORE AT HARTLEPOOL	TY170	0.0001052	Closed	Yes	Yes	No	Yes	No	No			
Whitby	TY180	8.69215E-05	Open	Yes	Yes	No	Yes	No	No			
Cleveland Potash Outfall	TY181	0.000374454	Open	Yes	Yes	No	Yes	No	No			
Staithes Harbour	TY182	1.47744E-07	Disused	Yes	Yes	No	Yes	No	No			





				Within Marine Mammal Screening Area?							
Name of Project	Reference	Area (km²)	Status	HP NS	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS		
Scarborough Rock	TY190	1.48285E-05	Open	Yes	Yes	No	Yes	No	No		
SCARBOROUGH	TY191	2.01533E-05	Closed	Yes	Yes	No	Yes	No	No		
SCALBY	TY192	8.41137E-07	Closed	Yes	Yes	No	Yes	No	No		
Tyne Burial Site	TY193	1.51016E-05	Disused	Yes	Yes	No	Yes	No	No		
Amble Offshore	underground coal gasification			Yes	Yes	No	Yes	No	No		
Blyth Offshore	underground coal gasification			Yes	Yes	No	Yes	No	No		
Central Firth of Forth,	underground coal gasification		Disused	Yes	Yes	Yes	Yes	No	Yes		
Cromer	underground coal gasification			Yes	Yes	No	Yes	No	No		
Durham North and South,.	underground coal gasification			Yes	Yes	No	Yes	No	No		
Firth of Forth,	underground coal gasification		Disused	Yes	Yes	Yes	Yes	No	Yes		
Holderness Offshore	underground coal gasification			Yes	Yes	No	Yes	No	No		
Humberside coastal	underground coal gasification			Yes	Yes	No	Yes	No	No		
Kincardine,	underground coal gasification			Yes	No	Yes	Yes	No	Yes		
Longhoughton Offshore	underground coal gasification			Yes	Yes	No	Yes	No	No		
Lynemouth Offshore	underground coal gasification			Yes	Yes	No	Yes	No	No		
Musselburgh,	underground coal gasification			Yes	No	Yes	Yes	No	Yes		
South Humber Offshore	underground coal gasification			Yes	Yes	No	Yes	No	No		
Sunderland Offshore	underground coal gasification			Yes	Yes	No	Yes	No	No		
Tynemouth Offshore	underground coal gasification			Yes	Yes	No	Yes	No	No		
Newhaven	WI010	8.57946E-05	Open	Yes	Yes	No	Yes	No	No		
Newhaven	WI011	2.48218E-07	Disused	Yes	Yes	No	Yes	No	No		





				Within Marine Mammal Screening Area?							
Name of Project	Reference	Area (km²)	Status	HP NS	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS		
NEWHAVEN	WI012	4.92372E-06	Closed	Yes	No	No	Yes	No	No		
Brighton/ Rottingdean	WI020	6.16287E-05	Open	Yes	Yes	No	Yes	No	No		
Emerald Quay, R Adur	WI029	9.57686E-07	Open	Yes	No	No	Yes	No	No		
SHOREHAM	WI030	1.59504E-07	Closed	Yes	No	No	Yes	No	No		
Shoreham	WI031	0.000150666	Open	Yes	Yes	No	Yes	No	No		
Shoreham(aggregate)	WI035	1.59504E-07	Disused	Yes	Yes	No	Yes	No	No		
LITTLEHAMPTON	WI040	0.000343289	Closed	Yes	No	No	Yes	No	No		
Birdham Pool Marina	WI042	4.22848E-07	Open	Yes	No	No	Yes	No	No		
Wittering beach	WI043	3.22E-07	Disused	Yes	Yes	No	Yes	No	No		
Chichester harbour	WI045	3.98446E-08	Disused	Yes	No	No	Yes	No	No		
Treloar hole	WI046	1.59358E-07	Open	Yes	No	No	Yes	No	No		
Aquind cable Site A	WI048	0.003395151	Open	Yes	No	No	Yes	No	No		
Aquind cable Site B	WI049	0.002384354	Open	Yes	No	No	Yes	No	No		
ISLE OF WIGHT INDUSTRIAL	WI050	0.208377838	Closed	Yes	No	No	Yes	No	No		
Area 451 Temporary Storage Site	WI053	-5.62647E-05	Closed	Yes	No	No	Yes	No	No		
ISLE OF WIGHT INDUSTRIAL (SMALL)	WI055	0.04858976	Closed	Yes	No	No	Yes	No	No		
Nab Tower	WI060	0.001515565	Open	Yes	No	No	Yes	No	No		
Langstone Harbour	WI063	6.49288E-06	Open	Yes	No	No	Yes	No	No		
Portsmouth ballast	WI064	1.36868E-07	Disused	Yes	No	No	Yes	No	No		
Basin 1 naval base portsmouth	WI065	3.98569E-08	Disused	Yes	No	No	Yes	No	No		
PTEC south isle of wight	WI067	-0.000636504	Disused	Yes	No	No	Yes	No	No		
Island Marina	WI068	7.65794E-07	Open	Yes	No	No	Yes	No	No		
Newtown Harbour	WI069	1.05481E-06	Open	Yes	No	No	Yes	No	No		
COWES	WI070	5.05523E-06	Closed	Yes	No	No	Yes	No	No		
Ryde harbour	WI071	1.79012E-07	Open	Yes	No	No	Yes	No	No		
Hill Head	WI072	2.75127E-06	Open	Yes	Yes	No	Yes	No	No		
River Hamble site 1	WI073	6.84302E-06	Open	Yes	No	No	Yes	No	No		
River Hamble site 2	WI074	7.25298E-06	Open	Yes	No	No	Yes	No	No		
SOUTHAMPTON DOCKS TOWN QUAY	WI075	1.59735E-07	Closed	Yes	No	No	Yes	No	No		
Marchwood Shiplift Disposal Area	WI076	2.83688E-07	Open	Yes	No	No	Yes	No	No		
Hurst fort	WI080	1.49404E-05	Open	Yes	No	No	Yes	No	No		
lymington habitat restoration	WI085	1.54916E-06	Disused	Yes	No	No	Yes	No	No		





				Within Marine Mammal Screening Area?								
Name of Project	Reference	Area (km²)	Status	HP NS MU	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS			
ventnor harbour	WI087	7.4622E-08	Open	Yes	No	No	Yes	No	No			
Needles	WI090	0.000707585	Open	Yes	No	No	Yes	No	No			
West wight	WI091	3.19754E-05	Disused	Yes	No	No	Yes	No	No			
BOURNEMOUTH BEACH	WI095	1.59139E-07	Closed	Yes	No	No	Yes	No	No			
POOLE BAY	WI100	0.000342674	Closed	Yes	No	No	Yes	No	No			
Swanage bay	WI110	0.000342446	Open	No	No	No	Yes	No	No			
Brownsea experimental	WI111	1.51597E-06	Open	No	No	No	Yes	No	No			
Blue lagoon 1	WI112	7.42446E-07	Disused	No	No	No	Yes	No	No			
Blue lagoon 2	WI113	7.55709E-07	Disused	No	No	No	Yes	No	No			
Poole bay nearshore trial	WI114	0.000157907	Disused	No	No	No	Yes	No	No			
Swanage bay nearshore	WI115	1.01137E-05	Disused	No	No	No	Yes	No	No			
Rampion OWF	WI117	0.015469556	Open	Yes	No	No	Yes	No	No			

Section 3.5 Screening of Oil and Gas Projects

Section 3.5.1 Oil and Gas Installation and Decommissioning Projects

- 56. Oil and gas projects could have the potential for cumulative impacts during the construction and operation of the Project. Plans or projects considered during the CIA screening were either operational, those with either construction or decommissioning currently underway, consented, or with an application submitted, for UK based projects. No European projects are assessed in due to a lack of information on project locations, phases, and programmes.
- 57. These projects were initially considered for potential cumulative impacts, if those projects could overlap with the construction of the Project.
- 58. As outlined in the BEIS (2020) Roc HRA for the Southern North Sea SAC, the use of cutting equipment is predicted to be required primarily during decommissioning activities. There is limited information on the level of noise arising from cutting equipment. However, one published study measured the level of noise from a diamond wire cutter at an offshore gas platform (Pangerc *et al.*, 2017). The results indicated that increases in noise of between 4 dB and 15 dB at frequencies predominantly above 5 kHz could be attributed to the cutting equipment. There was no increase in sound above that from the associated vessels detected at lower frequencies.
- 59. Based on currently available information, underwater noise during decommissioning of oil and gas projects would be less than levels for PTS to occur, and any disturbance would be localised and not be significantly greater than that arising from vessels. Therefore, potential cumulative impacts from decommissioning activities, such as cutting equipment has been screened out from further consideration in the CIA.
- 60. The potential for cumulative impacts from vessels associated with the decommissioning of oil and gas projects has also been screened out from further consideration in the CIA. As the potential impacts of any vessels associated with the decommissioning of oil and gas projects is unlikely to be significantly greater than vessel activity at these sites during the operational phase of the oil and

Project related





- gas projects. Therefore, potential cumulative impacts from vessels during decommissioning of oil and gas projects has been screened out from further consideration in the CIA.
- 61. Of the 107 oil and gas projects considered, 92 were decommissioning projects. Taking into account the potential for any significant contribution to cumulative impact, any potential cumulative impacts during decommissioning of oil and gas projects has been screened out from further consideration in the CIA.
- 62. Of the other 15 projects considered, two have a construction phase with the potential to overlap with the construction of the Project and have been screened into the CIA.
- 63. The results of the screening are in Table 11-7.

Section 3.5.2 Oil and Gas Seismic Surveys

- 64. It is currently not possible to estimate the location or number of potential seismic surveys that could be undertaken at the same time as construction and potential piling activity at the Project.
- 65. As a precautionary approach the potential for cumulative impacts from oil and gas seismic surveys has been screened into the CIA for further consideration.
- 66. It is assumed, as a worst case scenario, that there could be one oil and gas seismic survey undertaken at the same time as the construction of the Project.





Table 1-7 CIA Screening for Oil and Gas Projects (both Decommissioning and Production Projects are Included) within Relevant Spatial Areas and with the Potential to Overlap with Green Volt Construction

				V	Vithin Mar	rine Mamı	mal Scree	ning Are	a?	Result of CIA Screening			
Name of Project	Type of project	Project Status	Expected Date of Activity	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Screened in?		
Alma & Galia	Decommissioning	Activities underway	2021-2027	Υ	Υ	N	Υ	N	N	No	No		
Amethyst A1D, A2D, B1D & C1D Topsides	Decommissioning	Activities underway	2021-2026	Υ	Υ	N	Υ	N	N	No	No		
Anglia Field	Decommissioning	Activities underway	2020-2022	Υ	Υ	N	Υ	N	N	No	No		
Ann and Alison	Decommissioning	Activities underway	Q1 2020 - Q2 2023	Υ	Υ	N	Υ	N	N	Yes	No		
Audrey	Decommissioning	Activities underway	Q1 2019 - Q2 2023	Υ	Υ	N	Υ	N	N	Yes	No		
BALMORAL	Decommissioning	Activities underway	2021-2027	Υ	Υ	N	Υ	N	Υ	No	No		
Brae Bravo Topsides, Flare Bridge, Flare Tower and Flare Jacket and Substructure	Decommissioning	Activities underway	2019-2030	Υ	Υ	N	Υ	N	N	Yes	No		
BRENDA	Decommissioning	Activities underway	2021-2027	Υ	Υ	N	Υ	N	Υ	No	No		
BRENT ALPHA JACKET	Decommissioning	Activities underway	2018-2025	Υ	Υ	N	Υ	N	N	Yes	No		
Brent Alpha, Bravo and Charlie Topsides	Decommissioning	Activities underway	Q1 2018 - Q3 2024	Υ	Y	N	Υ	N	N	Yes	No		
Brent Field	Decommissioning	Activities underway	2020-2024	Υ	Υ	N	Υ	N	N	No	No		
Brynhild	Decommissioning	Activities underway	2019-2021	Υ	Υ	N	Υ	N	N	Yes	No		





				V	Vithin Ma	rine Mam	mal Scree	ening Are	a?	Result of CIA Screening		
Name of Project	Type of project	Project Status	Expected Date of Activity	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Screened in?	
BUCHAN & HANNAY	Decommissioning	Activities underway	2019-2027	Υ	Υ	N	Υ	N	Υ	Yes	No	
Caister	Decommissioning	Activities underway	2019-2022	Υ	Υ	N	Υ	N	N	Yes	No	
Cavendish	Decommissioning	Activities underway	2019-2022	Υ	Υ	N	Υ	N	N	Yes	No	
Conrie, Don SW, W Don and Ythan Decommissioning Programmes	Decommissioning	Activities underway	2021-2029	Y	Υ	N	Υ	N	N	No	No	
CORMORANT ALPHA Derrick Structure Removal & MDR Installation	Decommissioning	Activities underway	2020-2021	Υ	Υ	N	Υ	N	N	No	No	
Curlew B&D and Curlew C	Decommissioning	Activities underway	2019-2023	Υ	Υ	N	Υ	N	N	Yes	No	
Dunlin Alpha	Decommissioning	Activities underway	2016-2026	Υ	Υ	N	Υ	N	N	Yes	No	
East Brae Topsides and Braemar decommissioning	Decommissioning	Activities underway	To 2027	Υ	Υ	N	Υ	N	N	Yes	No	
Eider	Decommissioning	Activities underway	2019-2028	Υ	Υ	N	Υ	N	N	Yes	No	
FOINAVEN FPSO OFFSTATION DECOMMISSIONI NG PROGRAMMES	Decommissioning	Activities underway	2021-2022	N	N	N	Y	N	N	N/A	No	
Fulmar & Auk North	Decommissioning	Activities underway	2017-2021	Υ	Υ	N	Υ	N	N	Yes	No	
GLAMIS	Decommissioning	Activities underway	2021-2027	Υ	Υ	N	Υ	N	Υ	No	No	





				V	Vithin Ma	rine Mam	mal Scree	ening Are	a?	Result of CIA Screening		
Name of Project	Type of project	Project Status	Expected Date of Activity	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Screened in?	
Goldeneye	Decommissioning	Activities underway	2018-2024	Υ	Υ	N	Υ	N	Υ	Yes	No	
GUINEVERE	Decommissioning	Activities underway	2018-2022	Υ	Υ	N	Υ	N	N	Yes	No	
Heather Topsides Decommissioning Programme	Decommissioning	Activities underway	2021-2026	Υ	Υ	N	Υ	N	N	No	No	
HUNTINGTON	Decommissioning	Activities underway	2021-2028	Υ	Υ	N	Υ	N	Υ	No	No	
Huntington	Decommissioning	Activities underway	2020	Υ	Υ	N	Υ	N	Υ	No	No	
Juliet	Decommissioning	Activities underway	2019-2021	Υ	Υ	N	Υ	N	N	Yes	No	
Ketch	Decommissioning	Activities underway	Q3 2018 - Q1 2022	Υ	Υ	N	Υ	N	N	Yes	No	
Kingfisher Decommissioning Programme	Decommissioning	Activities underway	2019-2024	Υ	Υ	N	Υ	N	N	Yes	No	
LOGGS PR, LOGGS PC, LOGGS PP, LOGGS PA, North Valiant PD, & Associated Pipelines – LDP5	Decommissioning	Activities underway	2020-2024	Υ	Y	N	Y	N	N	No	No	
LOGGS Satellites Jupiter Area	Decommissioning	Activities underway	2020-2023	Υ	Υ	N	Υ	N	N	No	No	
LOGGS Satellites Jupiter Area: LDP3b	Decommissioning	Activities underway	2020-2021	Υ	Υ	N	Υ	N	N	No	No	
LOGGS Satellites Vulcan UR, Viscount VO,	Decommissioning	Activities underway	Programm e states TBC by	Υ	Υ	N	Υ	N	N	No	No	





				V	Vithin Ma	rine Mam	mal Scree	ening Are	a?	Result of CIA Screening			
Name of Project	Type of project	Project Status	Expected Date of Activity	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Screened in?		
Vampire OD - LDP1			end of 2021.										
MacCulloch	Decommissioning	Activities underway	2019-2025	Υ	Υ	N	Υ	N	Υ	Yes	No		
Minke	Decommissioning	Activities underway	2019-2022	Υ	Υ	N	Υ	N	N	Yes	No		
NEVIS N11 WELLHEAD	Decommissioning	Activities underway	2019-2020	Υ	Υ	N	Υ	N	N	Yes	No		
NICOL	Decommissioning	Activities underway	2021-2027	Υ	Υ	N	Υ	N	Υ	No	No		
NINIAN NORTHERN PLATFORM	Decommissioning	Activities underway	2020-2025	Υ	Υ	N	Y	N	N	No	No		
NORTH CORMORANT	Decommissioning	Activities underway	2020-2028	Υ	Υ	N	Υ	N	N	No	Yes		
Northern Producer FPF Float-off and Disconnection of Risers and Pipelines	Decommissioning	Activities underway	2021-2022	Υ	Υ	N	Y	N	N	No	No		
Pickerill Alpha (A) and Pickerill Bravo (B)	Decommissioning	Activities underway	2019-2022	Υ	Υ	N	Y	N	N	Yes	No		
Pickerill Alpha (A) and Pickerill Bravo (B)	Decommissioning	Activities underway	2018-2019	Υ	Υ	N	Y	N	N	Yes	No		
PL301 Heimdal to Brae Pipeline Decommissioning Programme	Decommissioning	Activities underway	2021-2026	Υ	Y	Υ	Υ	N	Υ	No	No		
Rev Decommissioning Programme	Decommissioning	Activities underway	Q4 2019 - Q4 2022	Υ	Υ	N	Υ	N	N	Yes	No		





				Within Marine Mammal Screening Area?						Result of CIA	A Screening
Name of Project	Type of project	Project Status	Expected Date of Activity	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Screened in?
Rockrose Energy	Decommissioning	Activities underway	2019-2027	Υ	Υ	N	Υ	N	N	Yes	No
Rockrose Energy	Decommissioning	Activities underway	2020-2021	Υ	Υ	N	Υ	N	N	No	No
Saturn (Annabel)	Decommissioning	Activities underway	Q2 2018 - Q2 2021	Υ	Υ	N	Υ	N	N	Yes	No
SCHOONER	Decommissioning	Activities underway	2018-2022	Υ	Υ	N	Υ	N	N	Yes	No
STIRLING	Decommissioning	Activities underway	2021-2027	Υ	Υ	N	Υ	N	Υ	No	No
TERN TOPSIDE	Decommissioning	Activities underway	2020-2028	Υ	Υ	N	Υ	N	N	No	No
Thistle Alpha Platform	Decommissioning	Activities underway	2019-2022	Υ	Υ	N	Υ	N	N	Yes	No
Topaz	Decommissioning	Activities underway	2021-2024	Υ	Υ	N	Υ	N	N	No	No
TYNE	Decommissioning	Activities underway	2018-2022	Υ	Υ	N	Υ	N	N	Yes	No
Viking	Decommissioning	Activities underway	2016-2024	Υ	Υ	N	Υ	N	N	Yes	No
Viking Satellites CD, DD, ED, GD, HD Pipelines	Decommissioning	Activities underway	Programm e states TBC by end of 2019 (but no close out report).	Υ	Y	N	Y	N	N	Yes	No
Viking satellites KD, LD, AR	Decommissioning	Activities underway	2016-2021	Υ	Υ	N	Υ	N	N	Yes	No
Windermere	Decommissioning	Activities underway	2019-2023	Υ	Υ	N	Υ	N	N	Yes	No





				V	Vithin Mai	rine Mamı	mal Scree	ning Are	a?	Result of CIA Screening		
Name of Project	Type of project	Project Status	Expected Date of Activity	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Screened in?	
Banff and Kyle Decommissioning Programmes	Decommissioning	Consented	2022-2026	Υ	Υ	N	Υ	N	Υ	No	No	
Beatrice	Decommissioning	Consented	2022-2030	Υ	Υ	Υ	Υ	Υ	N	No	No	
Caledonia	Decommissioning	Consented	2022-2028	Υ	Υ	N	Υ	N	Υ	No	No	
CDP3 Decommissioning Programmes for Murdoch Installations and Trunk Pipelines, CDP3	Decommissioning	Consented	2021 - 2027	Υ	Y	N	Y	N	N	N/A	No	
Cormorant Alpha Topsides	Decommissioning	Consented	2022-2028	Υ	Υ	N	Υ	N	N	No	No	
Decommissioning Programmes for Caister-Murdoch System III Installations and Pipelines, CDP2	Decommissioning	Consented	Constructio n Q1 2021 - Q4 2027	Υ	Y	N	Y	N	N	N/A	Yes	
Ensign installation DP	Decommissioning	Consented	2022-2026	Υ	Υ	N	Υ	N	N	No	No	
Fulmar and Auk North Topsides, Subsea Facilities and Pipelines Decommissioning Programme	Decommissioning	Consented	2026-2033	Υ	Y	N	Y	N	N	No	No	
Gaupe Decommissioning Programme	Decommissioning	Consented	2022-2031	Υ	Υ	N	Υ	N	Υ	No	No	
HEWETT PLATFORMS	Decommissioning	Consented	2022-2029	Υ	Υ	N	Υ	N	N	No	No	





				Within Marine Mammal Screening Area?						Result of CIA	A Screening
Name of Project	Type of project	Project Status	Expected Date of Activity	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Screened in?
Hummingbird FPSO Sailaway and Chestnut riser disconnection	Decommissioning	Consented	2022-2028	Y	Υ	N	Υ	N	Y	No	No
Hunter & Rita Decommissioning Programme	Decommissioning	Consented	2021-2025	Υ	Υ	N	Υ	N	N	No	No
Indefatigable 18A Topsides Decommissioning Programme	Decommissioning	Consented	2022-2029	Υ	Y	N	Υ	N	N	No	No
Jacky	Decommissioning	Consented	Q1 2022 - Q3 2023	Υ	Υ	Υ	Υ	Υ	N	No	No
LOGGS Satellites - Mimas MN, Saturn ND and Tethys TN, and Associated Infield Pipelines – LDP2	Decommissioning	Consented	2022-2028	Υ	Υ	N	Υ	N	N	No	No
LOGGS Satellites V-Fields Area - Vanguard QD, North Valiant SP, South Valiant TD and Vulcan RD, and Associated Infield Pipelines - LDP4	Decommissioning	Consented	2022-2027	Υ	Υ	N	Υ	N	N	No	No
Sean	Decommissioning	Consented	2023-2028	Υ	Υ	N	Υ	N	N	No	No
Thistle Topsides	Decommissioning	Consented	2022-2027	Υ	Υ	N	Υ	N	N	No	No
Tolmount East Development	Production licence	Consented	Application submitted April 2021, and consented August	Υ	Y	N	Y	N	N	No	No





				Within Marine Mammal Screening Area?						Result of CIA	A Screening
Name of Project	Type of project	Project Status	Expected Date of Activity	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Screened in?
			2021. Construction approximat ely 11 months. Operation approximat ely 22 years. Construction in 2023, operational by 2023								
Victoria	Decommissioning	Consented	2022-2025	Υ	Υ	N	Υ	N	N	No	No
Wenlock	Decommissioning	Consented	2023-2025	Υ	Υ	N	Υ	N	N	No	No
Abigail Field Development	Production licence	Application submitted	Application submitted July 2021. Construction 2022 & 2024.	Υ	Y	N	Υ	N	N	No	No
Affleck Redevelopment	Production licence	Application submitted	Constructio n Q2 2023 - Q2 2024	Υ	Υ	N	Υ	N	N	N/A	No
Alwyn East Development	Production licence	Application submitted	Application submitted September 2021. Construction spring 2022, completion by September 2022.	Υ	Υ	N	Υ	N	N	No	No
Atlantic and Cromarty	Decommissioning	Application submitted	2017-2021	Υ	Υ	N	Υ	N	Υ	No	No





		ı		Within Marine Mammal Screening Area?						Result of CIA	A Screening
Name of Project	Type of project	Project Status	Expected Date of Activity	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Screened in?
Brae Alpha, Brae Bravo, Central Brae, West Brae and Sedgwick	Decommissioning	Application submitted	2019-2029	Υ	Y	N	Y	N	N	No	No
Brent	Decommissioning	Application submitted	2022-2026	Υ	Υ	N	Υ	N	N	No	No
Cambo Phase 1 Field Development	Production licence	Application submitted	Application submitted June 2021. Constructio n planned for 2021- 2025 (but not yet consented) , operational by 2025	Υ	Υ	Ν	Υ	N	N	No	No
Captain EOR Stage 2 Phase II Development	Production licence	Application submitted	Constructio n Q1 2023 - Q2 2024	Υ	Υ	N	Υ	Υ	Υ	N/A	No
Causeway and Fionn	Decommissioning	Application submitted	2022-2027	Υ	Υ	N	Υ	N	N	No	No
DUART DECOMMISSIONI NG PROGRAMMES	Decommissioning	Application submitted	Decomm 2029-2034	Y	Y	N	Y	N	Y	N/A	No
Dunlin Alpha Field	Decommissioning	Application submitted	2021-2026	Υ	Υ	N	Υ	N	N	No	No
Hewett Area Subsea Installations	Decommissioning	Application submitted	2022-2028	Υ	Y	N	Υ	N	N	No	No
Jackdaw Field Development	Production licence	Application submitted	Application submitted May 2021. Constructio	Υ	Y	N	Y	N	Y	No	No





				V	Vithin Ma	rine Mam	mal Scree	ening Are	a?	Result of Cl	A Screening
Name of Project	Type of project	Project Status	Expected Date of Activity	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Screened in?
			n 2023- 2024, operational by 2024								
JOHNSTON Decommissioning Programmes	Decommissioning	Application submitted	Decom 2027-2029	Υ	Y	N	Y	N	N	N/A	No
Lancaster Field FPSO Decommissioning Programme	Decommissioning	Application submitted	Decom 2024	Y	Υ	N	Υ	N	N	N/A	No
Murlach Field Development (redevelopment of Skua, part of the Marnock-Skua field)	Production licence	Application submitted	Drilling of wells 1Q 2024 to 4Q 2024; • Subsea installation 3Q 2024 to 4Q 2024; • Well tie-in and commissio ning 1Q 2025; • First production 2Q 2025.	Y	Y	N	Y	N	Y	N/A	No
Pegasus West Development	Production licence	Application submitted	Application submitted October 2021. Constructio n Q2/3 2023, operational by Q1-3 2024	Υ	Υ	N	Υ	N	N	No	No
Rhum Production Increase	Production increase	Application submitted	Re- opening a	Υ	Υ	N	Υ	N	N	No	No





			Within Marine Mammal Screening Area?					Result of CIA	\ Screening		
Name of Project	Type of project	Project Status	Expected Date of Activity	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Screened in?
			production well only - no additional infrastructu re to be built. Planned to commence in July 2021, but not yet consented.								
Rosebank Field Development	Production licence	Application submitted	Constructio n 2024, 2025 and 2026	Υ	Υ	N	Y	N	N	N/A	Yes
Saltire A Topsides and Saltire Area Subsea Infrastructure Decommissioning Programmes	Decommissioning	Application submitted	Decom 2027 - 2031	Υ	Y	N	Υ	N	Y	N/A	No
Scoter & Merganser Fields Decommissioning Programmes	Decommissioning	Application submitted	Decom Q4 2024 - Q4 2026	Υ	Υ	N	Υ	N	Y	N/A	No
Southwark Pipeline Installation Project	Pipeline installation	Application submitted	Application submitted April 2021 Constructio n originally planned for 2021, but not yet consented	Υ	Υ	N	Υ	N	N	No	No
Talbot Field Development	Production licence	Application submitted	Constructio n Q4 2022 - Q3 2024	Υ	Υ	N	Υ	N	N	N/A	No





		i		٧	Vithin Ma	ine Mamı	nal Scree	ning Are	a?	Result of CI	A Screening
Name of Project	Type of project	Project Status	Expected Date of Activity	HP NS MU	BND GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	Operational prior to GV surveys?	Screened in?
Tartan Subsea – Tartan North Terrace (TNT) & Tartan Satellite (TS) DECOMMISSIONI NG PROGRAMMES	Decommissioning	Application submitted	Decomm 2029 - 2034	Υ	Υ	N	Υ	N	Υ	N/A	No
TARTAN TOPSIDES DECOMMISSIONI NG PROGRAMME	Decommissioning	Application submitted	Decomm 2029 - 2032	Υ	Υ	N	Υ	N	Y	N/A	No
Teal West Development	Production licence	Application submitted	Constructio n Q3 2023 - Q1/Q2 2027	Υ	Υ	N	Υ	N	Υ	N/A	Yes
Victory Field Development	Production licence	Application submitted	Constructio n May - Oct 2024	Υ	Υ	N	Υ	N	N	N/A	No





Section 3.5.3 Screening of Subsea Cables and Pipelines

- 67. Subsea cables and pipelines only have the potential for cumulative impacts with the Project during their construction. Plans or projects initially considered for the CIA screening were operational, those with construction underway, consented, and with an application submitted.
- 68. All the operational projects identified during screening were already installed, and are therefore considered part of the baseline and have been screened out from further consideration in the CIA.
- 69. Of the 98 sub-sea cables and pipelines for which some information was currently available, 72 were screened out from further consideration in the CIA as are already operational. A further 21 projects were screened out on the basis that construction would be complete prior to construction at the Project. Four of the subsea cable and pipeline projects have unknown construction windows. The final project has the potential for overlapping construction phases with the Project and is taken forward for assessment.
- 70. The results of the CIA screening for subsea cables and pipelines are presented in **Table 11-8**.





Table 1-8 CIA Screening for Subsea Cables and Pipelines within Relevant Spatial Areas and with the Potential to Overlap with Green Volt Construction (U = Unknown)

					With	in Marine	Mamm	al Scre	rea?		
Name of Project	Project Status	Landfall Point 1	Landfall Point 2	Type of Cable / Pipeline	HP NS MU	BD GNS MU	BD CES MU	CG NS MU	Seal MU MoF	Seal MU EaS	Potential for overlap of cable construction with GV construction?
Interconnector Cable	S										
Balgzand to Bacton	Operational	Bacton, UK	Balgzand, NL		Υ	Υ	N	Υ	N	N	No - part of the baseline
BritNed	Operational	Isle of Grain, UK	Rotterdam, Netherlands	HVDC 1,000MW	Υ	Υ	N	Υ	N	N	No - part of the baseline
Caithness Moray	Operational	Noss Head	Tannachy	HVDC 1,200 MW	Υ	Υ	Υ	Υ	Υ	N	No - part of the baseline
Carradale - Arran 1	Operational	UK	UK	MVAC	N	Υ	N	Υ	N	N	No - part of the baseline
Carradale - Arran 2	Operational	UK	UK	MVAC	N	Υ	N	Υ	N	N	No - part of the baseline
Clift Sound	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Cromarty Firth	Operational	UK	UK	MVAC	Υ	Υ	Υ	Υ	Υ	N	No - part of the baseline
Dagebull - Langeness -	Operational	Dagebull, Germany	Langeness, Germany	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Dagebull - Oland	Operational	Dagebull, Germany	Oland, Germany	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
East West	Operational	Rol			N	N	N	Υ	N	N	No - part of the baseline
Eday - Sanday	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Eday - Westray	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Emmelsull - Horsbull - Fohr	Operational	Emmelsull- Horsebull, Germany	Fohr, Germany	MVAC	Y	Y	N	Y	N	N	No - part of the baseline
EWIC	Operational			500 MW	U	U	U	U	U	U	No - part of the baseline
Fohr - Amrum	Operational	Fohr, Germany	Amrum, Germany	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline





					Within Marine Mammal Screening Area						
Name of Project	Project Status	Landfall Point 1	Landfall Point 2	Type of Cable / Pipeline	HP NS MU	BD GNS MU	BD CES MU	CG NS MU	Seal MU MoF	Seal MU EaS	Potential for overlap of cable construction with GV construction?
Harlingen-Vlieland	Operational	Netherlands	Netherlands	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Helgoland	Operational	Helgoland, Germany	Sankt Peter- Ordning, Germany	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Hoy - Flotta	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Hoy - Orkney Mainland (centre)	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Hoy - Orkney Mainland (north)	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Hoy - Orkney Mainland (south)	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
IFA	Operational	UK	France	2000 MW	Υ	Υ	N	Υ	N	N	No - part of the baseline
IFA2	Operational	UK	France	2000 MW	Υ	Υ	N	Υ	N	N	No - part of the baseline
Interconnexion France-Angleterre 2000	Operational	Sangatte, France	Folkestone, UK	HVDC 2,000MW	Υ	Y	N	Υ	N	N	No - part of the baseline
IUK Interconnector	Operational	UK	Belguim		Υ	Υ	N	Υ	N	N	No - part of the baseline
Lerwick - Bressay 1	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Lerwick - Bressay 2	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Little Belt	Operational	Denmark	Denmark	EHVAC 1,100MW	Υ	Υ	N	Υ	N	N	No - part of the baseline
Luutmoorsiel - Nordstrandischmoor	Operational	Luttmoorsiel	Nordstrandisch moor	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Moffat to Rol	Operational	Moffatt, UK	Rol		N	N	N	Υ	N	N	No - part of the baseline
Mongstad-Kollsnes	Operational	Norway	Norway	EHVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline





					Within Marine Mammal Screening Area						
Name of Project	Project Status	Landfall Point 1	Landfall Point 2	Type of Cable / Pipeline	HP NS MU	BD GNS MU	BD CES MU	CG NS MU	Seal MU MoF	Seal MU EaS	Potential for overlap of cable construction with GV construction?
Mossbank - Yell North	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Mossbank - Yell South	Operational	UK	UK	MVAC	Υ	Υ	N	Y	N	N	No - part of the baseline
Moyle	Operational	Northern Ireland		500 MW	N	N	N	Y	N	N	No - part of the baseline
Nemo Link	Operational	Pegwell Bay	Zeebruge	HVDC 1,000MW	Υ	Υ	N	Υ	N	N	No - part of the baseline
Nordstrand - Pellworm	Operational	Nordstrand, Germany	Pellworm, Germany	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Nordstrandischmoor - Pellworm	Operational	Nordstrandisch moor, Germany	Pellworm, Germany	MVAC	Y	Y	N	Y	N	N	No - part of the baseline
NorNed	Operational	Freda, Norway	Eemshaven	HVDC 700MW	Υ	Y	N	Υ	N	N	No - part of the baseline
North Ness - South Ness	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
North Sea Link	Operational	Hylsfjorden, Norway	Blyth, UK	HVDC 1,400MW	Υ	Υ	N	Υ	N	N	No - part of the baseline
Oland - Langeness	Operational	Oland, Germany	Langeness, Germany	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Oresund replacement	Operational	Kristinelundvei en	Denmark	HVAC 132kV	Υ	Υ	N	Υ	N	N	No - part of the baseline
Orkney - Graemsay	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Orkney - Rousay	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Orkney - Shapinsay	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Orkney AC Link	Operational	Thruso, UK	Orkney, UK	AC 30MW	Υ	Υ	N	Υ	N	N	No - part of the baseline
Oscarsborg - Drobak	Operational	Oscarsbord, Denmark	Drobak, Denmark		N	Υ	N	Υ	N	N	No - part of the baseline





					With	in Marine	e Mamm	al Scre	enina A	rea?	
Name of Project	Project Status	Landfall Point 1	Landfall Point 2	Type of Cable / Pipeline	HP NS MU	BD GNS MU	BD CES MU	CG NS MU	Seal MU MoF	Seal MU EaS	Potential for overlap of cable construction with GV construction?
Pellworm - Hooge	Operational	Pellworm, Germany	Hooge, Germany	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Rossie Island - Ferryden	Operational	UK	UK	MVAC	Υ	Υ	Υ	Υ	N	Υ	No - part of the baseline
Rousay - Egilsay	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Rousay - Westray	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Rousay - Wyre	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Sanday - North Ronaldsay	Operational	Germany	Germany	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Schluttsiel - Grode	Operational	Ockholm, Germany	Grode, Germany	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Shapinsay - Stronsay	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Shetland - Papa Stour	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Shetland - West Linga	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Shetland - Whalsay	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Skagerrak 1 and 2	Operational	Kristiansand, Norway	Tjele, Denmark	HVDC 500MW	Υ	Υ	N	Υ	N	N	No - part of the baseline
Skagerrak 3	Operational	Kristiansand, Norway	Tjele, Denmark	HVDC 440MW	Υ	Υ	N	Υ	N	N	No - part of the baseline
Skagerrak 4	Operational	Kristiansand, Norway	Bulbjerg, Denmark	HVDC 700MW	Υ	Υ	N	Υ	N	N	No - part of the baseline
Stronsay - Sanday	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Weisdale Voe	Operational				Υ	Υ	N	Υ	N	N	No - part of the baseline





					Within Marine Mammal Screening Area						
Name of Project	Project Status	Landfall Point 1	Landfall Point 2	Type of Cable / Pipeline	HP NS MU	BD GNS MU	BD CES MU	CG NS MU	Seal MU MoF	Seal MU EaS	Potential for overlap of cable construction with GV construction?
West Linga - Whalsay	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Westray - Papa Westray	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Whalsay - Out Skerries	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Yell - Fetlar 1	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Yell - Fetlar 2	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Yell - Unst 1	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
Yell - Unst 2	Operational	UK	UK	MVAC	Υ	Υ	N	Υ	N	N	No - part of the baseline
COBRAcable	Under construction	Eemshaven, Netherlands	Endrup, 6740, Denmark	HVDC 700MW	Y	Y	N	Y	N	N	No - assume construction completed prior to GV construction commencing
ElecLink	Under construction	Folkestone	Les Mandarins, France	HVDC 1,000MW	Y	Υ	N	Y	N	N	No - assume construction completed prior to GV construction commencing
Interconnexion France-Angleterre 2	Under construction	Merville, France	Monks Hill Beach, UK	HVDC 1,000MW	Y	Υ	N	Y	N	N	No - assume construction completed prior to GV construction commencing
Nordlink	Under construction	Büsum, Germany	Ertsmyra, Norway	HVDC 1,400MW	Y	Υ	N	Υ	N	N	No - assume construction completed prior to GV construction commencing
FAB Link	Consented	UK	France	1400 MW	Υ	Υ	N	Y	N	N	No - assume construction completed prior to GV construction commencing
Gridlink	Consented	Kingsnorth, UK	Dunkerque, France	HVDC 1,400MW	Y	Υ	N	Y	N	N	No - assume construction completed prior to GV construction commencing





					With	nin Marin	e Mamm	al Scre	ening A	rea?	
Name of Project	Project Status	Landfall Point 1	Landfall Point 2	Type of Cable / Pipeline	HP NS MU	BD GNS MU	BD CES MU	CG NS MU	Seal MU MoF	Seal MU EaS	Potential for overlap of cable construction with GV construction?
NorthConnect	Consented	Peterhead, UK	Simadalen, Norway	HVDC 1,400MW	Υ	Y	N	Υ	N	N	No - assume construction completed prior to GV construction commencing
Greenlink	Consented	UK	Rol	500MW	N	N	N	Y	N	N	No - assume construction completed prior to GV construction commencing
NeuConnect	Consented	UK	Germany	1400MW	Υ	Y	N	Y	U	U	No - assume construction completed prior to GV construction commencing
Atlantic Super Connection	Application submitted	UK	Iceland	HVDC 1,000MW	Υ	Υ	U	Υ	U	U	Unknown, but possible
Carradale - Arran 1 replacement	Application submitted	UK	UK	MVAC	N	Υ	N	Υ	N	N	Unknown, but possible
VikingLink Corridor	Application submitted	Lincolnshire Coast, UK	Southern Jutland, Denmark	HVDC 1400 MW	Y	Y	N	Υ	N	N	No - assume construction completed prior to GV construction commencing
Continental Link	Early development	Holderness Coast, UK			Υ	Υ	N	Υ	N	N	Unknown, but possible
Nautilus Interconnetor	Early development	Suffolk, UK	Belgium		Y	Y	N	Υ	N	N	No - assume construction completed prior to GV construction commencing
Sea Link	Early development	Sizewell offshore, UK	Kent, UK		Υ	Y	N	Υ	N	N	Unknown, but possible
Gas Pipelines											
PL2236 - MIMAS TO SATURN	Under construction			10 inch Precommission GAS pipeline operated by CONOCOPHILL IPS	Y	Y	N	Y	N	N	No - assume construction completed prior to GV construction commencing





					With	in Marine	e Mamm	al Scre	ening A	rea?	
Name of Project	Project Status	Landfall Point 1	Landfall Point 2	Type of Cable / Pipeline	HP NS MU	BD GNS MU	BD CES MU	CG NS MU	Seal MU MoF	Seal MU EaS	Potential for overlap of cable construction with GV construction?
PL2237 - SATURN TO MIMAS	Under construction			3 inch Precommission CHEMICAL pipeline operated by CONOCOPHILL IPS	Υ	Υ	N	Υ	N	N	No - assume construction completed prior to GV construction commencing
PL2894 - KATY TO KELVIN GAS EXPORT PIPELINE	Under construction			10 inch Precommission GAS pipeline operated by CONOCOPHILL IPS	Υ	Y	N	Υ	N	N	No - assume construction completed prior to GV construction commencing
PL2895 - KELVIN TO KATY METHANOL PIPELINE	Under construction			2 inch Precommission METHANOL pipeline operated by CONOCOPHILL IPS	Y	Υ	N	Υ	N	N	No - assume construction completed prior to GV construction commencing
PL3086 - CYGNUS A TO CYGNUS B GAS PIPELINE	Under construction			12 inch Precommission GAS pipeline operated by ENGIE	Υ	Υ	N	Υ	N	N	No - assume construction completed prior to GV construction commencing
PL3088 - CYGNUS TO ETS GAS PIPELINE	Under construction			24 inch Precommission GAS pipeline operated by ENGIE	Υ	Υ	N	Υ	N	N	No - assume construction completed prior to GV construction commencing
PL3121 - JULIET TO PICKERILL A GAS PIPELINE	Under construction			12 inch Precommission MIXED HYDROCARBO NS pipeline operated by ENGIE	Y	Υ	N	Υ	N	N	No - assume construction completed prior to GV construction commencing





					Within Marine Mammal Screening Area?						
Name of Project	Project Status	Landfall Point 1	Landfall Point 2	Type of Cable / Pipeline	HP NS MU	BD GNS MU	BD CES MU	CG NS MU	Seal MU MoF	Seal MU EaS	Potential for overlap of cable construction with GV construction?
PLU3122 - JULIET TO PICKERILL A UMBILICAL	Under construction			138 mm Precommission MIXED HYDROCARBO NS pipeline operated by ENGIE	Υ	Y	N	Y	N	N	No - assume construction completed prior to GV construction commencing
NGS Pipelines											
Rough to Easington	Decommissio ned	N/A	N/A	NGS	Υ	Υ	N	Υ	N	N	No
Endurance to Barmston	FEED - operational by 2021	N/A	N/A	CSS pipeline	Υ	Y	N	Υ	N	N	No
Hewett Depleted Gas	FEED - operational by 2028	N/A	N/A	CSS pipeline	Υ	Y	N	Υ	N	N	Yes
Goldeneye To St. Fergus	FEED - operational by 2025	N/A	N/A	CSS pipeline	Υ	Y	N	Υ	N	N	No



Section 3.6 Screening of Other Industries

Section 3.6.1 Screening of Gas Storage Projects

- 71. For gas storage projects, there are two within the relevant species areas, one of which was cancelled (Deborah), and one of which has been decommissioned (Rough). Therefore, gas storage projects have been screened out from further consideration in the CIA.
- 72. The results of the CIA screening for gas storage projects are presented in Table 11-9.

Section 3.6.2 Screening of Offshore Mining Projects

- 73. Offshore mining projects considered for the CIA screening are operational, under construction, or consented projects. No European projects were considered due to a lack of information on project locations, phases, and programmes.
- 74. Two UK mining projects were identified, both of which are operational. Both projects are considered part of the current baseline, and therefore not considered further in the CIA.
- 75. The results of the CIA screening for offshore mines are presented inn Table 11-9.

Section 3.6.3 Screening of Carbon Capture Projects

- 76. Carbon capture projects considered in the CIA screening are operational, under construction, or consented projects. All European projects were screened out due to a lack of information on project locations, phases, and programmes.
- 77. No projects were identified as either under construction or consented, and all the operational projects identified by screening were already active and are therefore considered part of the baseline.
- 78. There is limited information on projects that are in early development, including the Endurance and Goldeneye projects, on which to base a cumulative impact assessment.
- 79. Acorn Carbon Capture and Storage Site is based at the St Fergus gas terminal in North-East Scotland. The Acorn CCS will repurpose existing gas pipelines to take CO₂ directly to the Acorn CO2 Storage Site in the North Sea. Potential for construction activities for Acorn CCS to overlap temporally with the Project. However, most construction will be onshore.
- 80. Carbon capture projects are unlikely to contribute significantly to any potential cumulative impacts for underwater noise, as most construction work will be on land and use existing offshore infrastructure. Therefore, all carbon capture projects have been screened out of the CIA.
- 81. The results of the CIA screening for carbon capture projects are presented in **Table 11-9**.





Table 1-9 CIA Screening for Other Industries (Offshore Mines and Carbon Capture Projects) within the Relevant Spatial Areas and with the Potential to Overlap with Green Volt Construction

		Within Marine Mammal Screening Area?						Potential for overlap of	
Name	Project Status	HP NS MU	BD GNS MU	BND CES MU	CGNS MU	Seal MU MoF	Seal MU EaS	cable construction with GV construction?	
Gas Storage Projects	Gas Storage Projects								
Deborah	Cancelled	Υ	Υ	N	Υ	N	N	No	
Rough	Decommissioned	Υ	Υ	N	Υ	N	N	No	
Offshore Mining Projects									
Hundale Potash Mine	Operational	Υ	Υ	N	Υ	N	N	No	
Boulby Potash Mine	Operational	Υ	Υ	N	Υ	N	N	No	
Carbon Capture Projects	Carbon Capture Projects								
Endurance	FEED	Υ	Υ	N	Υ	N	N	No	
Hewett Depleted Gas	FEED	Υ	Υ	N	Υ	N	N	Unknown	
Goldeneye	FEED	Υ	Υ	N	Υ	N	N	No	
The Acorn Project	In development	Υ	Υ	Υ	Υ	Υ	Υ	No	
Bunter Closure 36	Portfolio for development	Υ	Y	N	Υ	N	N	Unknown	
Captain X	Portfolio for development	Υ	Υ	N	Υ	Υ	Υ	No	
Forties 5 Site 1	Portfolio for development	Υ	Υ	N	Υ	N	Υ	Unknown	
Viking A	Portfolio for development	Υ	Υ	N	Υ	N	N	Unknown	
Hamilton	Portfolio for development	Υ	Υ	N	Υ	N	N	Unknown	





Section 3.7 Screening of UXO Clearance

- 82. As outlined in **Section 11.8** of **Chapter: 11 Marine Mammal Ecology**, the potential risk of PTS in marine mammals from cumulative impacts has been screened out from further consideration in the CIA. As if there is the potential for any PTS, suitable mitigation would be put in place to reduce any risk to marine mammals.
- 83. The potential for cumulative disturbance effects from UXO clearance at other projects during construction of Green Volt has been screened into the CIA.
- 84. Mitigation measures for UXO clearance include the use of low-order clearance techniques, which could include a small donor charge, rather than full high-order detonation.
- 85. It is therefore highly unlikely that more than one UXO high-order detonation would occur at the same time or on the same day as another UXO detonation, even if they had overlapping UXO clearance operation durations. The CIA is therefore based on potential for disturbance from one UXO high-order detonation without mitigation (worst case), as well as one low-order clearance.
- 86. The requirement for any UXO clearance for the Project Volt will be assessed as part of a separate Marine Licence. The assessment prior to any UXO clearance will be based on the latest information for the types, size, number, location and latest UXO clearance methods and mitigation measures, including cumulative impacts during UXO clearance at the Project. Therefore, UXO clearance for the Project are not included in this CIA.

Section 4. Summary of CIA Screening for Marine Mammals

86. Table 11-10 summarises the activities, plans and projects screened into the CIA.

Table 1-10 Summary of Activities, Plans and Projects Screened into the CIA

Impact	Potential for Cumulative Impact	Projects				
Disturbance from	Piling at other OWFs	The OWFs that could be piling at the same time as the Project, and therefore screened into the CIA for further assessment are: Berwick Bank (Seagreen Charlie Delta Echo) Dogger Bank South (East and West) Dunkerque Hornsea Project Four Hornsea Project Three³ Norfolk Boreas Norfolk Vanguard³ Outer Dowsing Stora Middelgrund				
underwater noise	Other construction activities at OWFs (other than piling) including vessels, cable installation works, dredging, seabed preparation and rock placement	The OWFs screened in for other construction activities that could have cumulative impacts with other construction activities at the Project are:				

³ Where projects have the same developer, it is assumed (unless further information is known), that only one will be piled at a time, and therefore additional projects with the same developer and similar construction windows are screened out of assessment of concurrent piling, and assessed as undergoing construction at the same time as Green Volt

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Impact	Potential for Cumulative Impact	Projects				
		 Inch Cape Ossian Pentland Floating Demo (formerly Dounreay Tri) Salamander (floating) Sheringham Shoal Extension Sofia (formerly Dogger Bank Teesside B) 				
	Geophysical surveys at OWFs	Unknown It is therefore assumed, as a worst case scenario, that there could potentially be up to two geophysical surveys at OWFs in the North Sea at any one time, during construction of the Project.				
	MRE projects (wave and tidal) – construction phase only	All MRE projects screened out as no potential overlapping construction windows.				
	Aggregate extraction and dredging	Aggregate extraction and dredging projects screened in for the potential for cumulative impact with the Project are: • East Orford Ness • EEC 5 South • EEC 5 South • Lowestoft Extension • West Bassurelle Extension • Goodwin Sands • Off Great Yarmouth • Median Deep • West Wight • Greenwich Light East				
	Oil and gas installation projects	Oil and gas installation projects screened in for the potential for cumulative impact with the Project are: • Rosebank Field Development • Teal West Development				
	Oil and gas seismic surveys	Unknown It is therefore assumed, as a worst case scenario, that there could potentially be up to one seismic surveys in the North Sea at any one time, during construction of the Project.				
	Subsea cable and pipelines	Installation of pipeline project screened in is: • Hewett Depleted Gas				
	Other marine projects (gas storage, offshore mines and carbon capture)	None screened with potentially overlapping construction windows with the Project.				
	UXO clearance	Unknown It is assumed UXO clearance would use low-order technique. However, as a worst case scenario, CIA includes potential for one UXO high-order detonation (no mitigation) and one low-order detonation in the North Sea at the same time as construction of the Project.				

87. **Table 11-11** summarises the activities and types of projects screened out of the CIA.

Table 1-11 Summary of Activities and Types of Projects Screened out of the CIA





Impact	Potential for Cumulative Impact	Activities and types of projects screened out
Disturbance from underwater noise	No	The activities and types of projects screened out of the CIA, as no potential for significant contribution to underwater noise cumulative impacts during the Project's construction, are:





Section 5. References

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