



Technical Appendix 20.1

Cumulative Impact Assessment Screening List

Offshore EIA Report: Volume 2

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REPORT

Green Volt Offshore Windfarm Environmental Impact Assessment

Appendix 20.1: Long list of potential projects to be screened into cumulative impact assessment

Client: Green Volt Offshore Wind Ltd

Reference: PC2483-RHD-ZZ-XX-RP-Z-0048

Status: Final/01

Date: 18 January 2023

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Revision history

Revision	Date	Description	Prepared	Checked	Approved
1	16/11/2022	First draft	CC (Royal HaskoningDHV)	CM (Royal HaskoningDHV)	VC (Flotation Energy)
2	10/10/2022	Second draft	SF (Royal HaskoningDHV)	PP (Royal HaskoningDHV)	VC (Flotation Energy)
3	18/01/2023	Final for submission	SF (Royal HaskoningDHV)	CM (Royal HaskoningDHV)	VC (Flotation Energy)

APPENDIX 20.1: LONG LIST OF POTENTIAL PROJECTS TO BE SCREENED INTO CUMULATIVE IMPACT ASSESSMENT

1. This appendix of the Green Volt Offshore Environmental Impact Assessment (EIA) Report presents a list of relevant projects considered in the Transboundary Impact Assessment (TIA) and Cumulative Impact Assessments (CIA) found in technical EIA Report **Chapters 7 – 19** and then summarised in **Chapter 20: Transboundary and Cumulative Impacts**.
2. Projects in this list have been considered specifically to each environmental receptor and incorporated into the impact assessment accordingly.

1.1 Appendix 20.1 Projects Included in Cumulative Impact Assessment (CIA)

Project	Location	Developer	Description	Current Status	Distance from Green Volt	Data Confidence	Potential for Cumulative Impact	Links to relevant documents
Plans								
Scotland's National Marine Plan	Scotland	N/A	Scotland's National Marine Plan (NMP) provides a framework for managing all developments, activities and interests in or affecting Scotland's marine area (territorial and offshore waters). Adopted in March 2015, the NMP sets out high-level objectives, general policies and sectoral policies. Under the NMP, 11 Regional Marine Plans (RMP) are to be prepared by Statutory regional Marine Planning Partnerships (MPPs) in line with the NMP.	While the final NMP was published in 2015, at time of writing no RMP has been produced for the north-east region (within which the Project would be located).	Within	High	Potential for the Project lifespan to coincide with the preparation of the North East RMP, which could influence future decision making on the Project.	https://www.gov.scot/publications/scotlands-national-marine-plan/pages/1/ https://www.gov.scot/policies/marine-planning/regional-marine-planning/
Offshore Wind								
Scottish Offshore Wind Farms								
2B Energy Methil Demonstration	Scotland	Forthwind Ltd	A demonstrator site for experimental offshore wind turbines off the coast of Methil, Fife in Scotland. A single 7 MW turbine was installed at the site in 2013, with a further two turbines receiving consent in 2017.	In operation - Single turbine in operation since 2013.	Approx. 236.4 km southwest of the Offshore Development Area.	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	https://marine.gov.scot/datafiles/lot/forthwind_methil/Forthwind%20ES%20Non%20Technical%20Summary.pdf Forthwind Cleared to Install Two-Bladed Turbine Duo off Scotland Offshore Wind

Project	Location	Developer	Description	Current Status	Distance from Green Volt	Data Confidence	Potential for Cumulative Impact	Links to relevant documents
Aberdeen Offshore Windfarm	Scotland	Vattenfall	The European Offshore Wind Deployment Centre, otherwise known as Aberdeen Offshore Windfarm, is located just off the coast of Aberdeen in Scotland. Installed at the site are 11 x 8.8 MW turbines, paired with suction bucket jacket foundations. First power was generated in July 2018. The project is now looking to demonstrate the feasibility of offshore hydrogen production by installing hydrogen generating equipment on an extended transition piece platform at one of the Aberdeen turbines. The hydrogen generating equipment would be connected to land via an 8" internal diameter (maximum) buried flowline, where the hydrogen would be stored for offtake.	In operation / Pre-Application - Main array is operational and producing power, screening opinion request for hydrogen producing equipment submitted January 2022.	Approx. 97.5 km south of the Offshore Development Area	High	Very low potential impact due to the small-scale nature of the site and distance from the Project.	Screening Request - Aberdeen Offshore Windfarm - Aberdeen Marine Scotland Information
Beatrice Offshore Windfarm	Scotland	Beatrice Offshore Windfarm Ltd (SSE Renewables , Red Rock Power Limited, TRIG and Equitix)	Located approximately 13 km from the Caithness coast, Beatrice became fully operational in June 2019 following seven years of development and three years of construction. The site has 84 installed turbines with a 588 MW installed capacity.	Operational - Site declared fully operational in June 2019.	Approx. 130.3 km west of the Offshore Development Area	High	As construction on the site has now concluded, potential for cumulative effect with Beatrice is minimal.	Beatrice Offshore Windfarm Marine Scotland Information

Project	Location	Developer	Description	Current Status	Distance from Green Volt	Data Confidence	Potential for Cumulative Impact	Links to relevant documents
Bellrock Floating Offshore Windfarm	Scotland	Falck Renewables / BlueFloat Energy	One of three lease sites secured by Falck Renewables and BlueFloat Energy during the recent Scotwind leasing round, together all three sites could accommodate a total of approximately 3 GW of offshore wind capacity with the projects scheduled to be operational by the end of the decade, subject to securing consent, commercial arrangements and grid connections	In early planning: Falck Renewables and BlueFloat Energy were successful in the recent ScotWind licensing round in securing the seabed lease for the site.	Approx. 106.6 km south of the Offshore Development Area	Low	Unlikely to progress prior to the Project. Cumulative impacts should be assessed in the EIA for Bellrock should the project progress	BellRock Wind
Berwick Bank Offshore Windfarm	Scotland	TotalEnergies & SSE Renewables	Berwick Bank, located in the outer Firth of Forth (40 km offshore), has the potential to deliver up to 4.1 GW of renewable energy.	Scoping report submitted to MS-LOT in October 2021.	Approx. 140 km southwest of the Offshore Development Area.	Medium	Due to the distance of the Project from Berwick Bank, the potential for cumulative effects is very unlikely. Potential for cumulative impacts on marine mammals as a result of underwater noise generated by both projects.	Berwick Bank
Broadshore Floating Offshore Windfarm	Scotland	Falck Renewables / BlueFloat Energy	One of three lease sites secured by Falck Renewables and BlueFloat Energy during the recent Scotwind leasing round, together all three sites could accommodate a total of approximately 3 GW of offshore wind capacity with the projects scheduled to be operational by the end of the decade, subject to securing consent, commercial arrangements and grid connections	In early planning: Falck Renewables and BlueFloat Energy were successful in the recent ScotWind licensing round in securing the seabed lease for the site.	Approx. 68 km northwest of the Offshore Development Area	Low	Unlikely to progress prior to the Project. Cumulative impacts should be assessed in the EIA for Broadshore should the project progress.	Broadshore Wind

Project	Location	Developer	Description	Current Status	Distance from Green Volt	Data Confidence	Potential for Cumulative Impact	Links to relevant documents
Buchan Floating Offshore Windfarm	Scotland	Floating Energy Alliance (BayWa re., Elicio & BW Ideal)	Floating offshore windfarm site off the north-east coast of Scotland with a proposed approximate capacity of 1 GW.	In early planning: Floating Energy Alliance were successful in the recent ScotWind licensing round in securing the seabed lease for the site.	Approx. 49 km northwest of the Offshore Development Area	Low	Unlikely to progress prior to the Project. Cumulative impacts should be assessed in the EIA for Buchan Floating Offshore Windfarm should the project progress.	Floating Energy Alliance Global Renewable Energy Renewable Energy Developers Floating Wind Technology Developer BayWa r.e. Elicio Ideal ScotWind Leasing Round Bid - Europe (fe-alliance.co.uk)
Caledonia Offshore Windfarm	Scotland	Ocean Winds (EDP Renewables & ENGIE)	A planned fixed foundation windfarm to be located in the Moray Firth, the project has a proposed total capacity of 1 GW spread over an area of 440 km ² .	In planning: Project secured a lease for the site in the recent Scotwind leasing process, scoping report submitted 30th September 2022. Onshore construction is proposed to commence in 2027, with offshore construction proposed to commence in 2028.	Approx. 96.9 km west of the Offshore Development Area.	Medium	Potential for temporal overlap with all phases of the Caledonia Offshore Windfarm lifespan given the similar timespan for development between Caledonia and the Project.	https://www.oceanwinds.com/uk/ https://marine.gov.scot/sites/default/files/pre-application_-_offshore_scoping_report_redacted.pdf https://www.power-technology.com/market-data/caledonia-offshore-wind-farm-uk/
CampionWind Floating Offshore Windfarm	Scotland	ScottishPower / Shell	Floating wind farm site located 100 km off the North East coast of Scotland in water depths averaging 77 m, the proposed MaramWind floating offshore windfarm could deliver up to 2 GW of power.	In early planning: ScottishPower / Shell were successful in the recent ScotWind licensing round in securing the seabed lease for the site.	Approx. 45 km southeast of the Offshore Development Area	Low	Unlikely to progress prior to the Project. Cumulative impacts should be assessed in the EIA for CampionWind should the project progress.	CampionWind - Working together for a cleaner energy future

Project	Location	Developer	Description	Current Status	Distance from Green Volt	Data Confidence	Potential for Cumulative Impact	Links to relevant documents
Cluaran Deas Ear Offshore Windfarm	Scotland	DEME Concessions, Qair Marine and Aspiravi International	Proposed fixed foundation offshore windfarm with a 1 GW generating capacity.	In early planning: Project secured a lease for the site in the recent Scotwind leasing process.	Approx. 94.8 km south of the Offshore Development Area	Low	Unlikely to progress prior to the Project. Cumulative impacts should be assessed in the EIA for Cluaran Deas Ear should the project progress.	DEME-led consortium wins two offshore wind projects in Scotland Project Cargo Journal
Cluaran Ear-Thuath Floating Offshore Windfarm	Scotland	DEME Concessions, Qair Marine and Aspiravi International	Proposed floating offshore windfarm with a 1 GW generating capacity.	In early planning: Project secured a lease for the site in the recent Scotwind leasing process.	Approx. 122.3 km northwest of the Offshore Development Area	Low	Unlikely to progress prior to the Project. Cumulative impacts should be assessed in the EIA for Cluaran Ear-Thuath should the project progress.	DEME-led consortium wins two offshore wind projects in Scotland Project Cargo Journal
Green Volt Offshore Windfarm (Onshore works)	Scotland	Flotation Energy	Green Volt Offshore Windfarm is a proposed floating offshore windfarm located 80km north-east of the Aberdeenshire Coast in the North Sea.	Scoping submitted to Aberdeenshire Council in March 2022.	Within	Medium	Onshore works for the Project could occur within the same timeframe as nearshore works, leading to a cumulative disturbance impact on nearby receptors.	N/A

Project	Location	Developer	Description	Current Status	Distance from Green Volt	Data Confidence	Potential for Cumulative Impact	Links to relevant documents
Hywind Scotland Pilot Park	Scotland	Equinor / Masdar	<p>A floating offshore pilot wind farm at Buchan Deep, approximately 25 km east of Peterhead on the east coast of Scotland. Beginning production in October 2017 and currently the largest floating offshore wind farm, the site extends over 4 km² area in water depths between 95 m and 120 m. The location witnesses an average wind speed of 10m/s.</p> <p>The wind farm includes five 6 MW SWT-6.0-154 direct drive floating wind turbine generator (WTG) units. Each 258 m-high turbine has a hub height between 82 m and 101 m, as well as a rotor diameter of 154 m.</p> <p>The turbines are placed between 720 m and 1,600 m apart and connected by inter-array cables. The electricity generated from the wind farm is transported to a landfall on the coast at Peterhead to the local grid network through an export cable corridor. The transmission voltage of the inter-array and export cables is 33 kV.</p>	Operational	Approx. 51.5 km southwest of the Offshore Development Area	High	Very low potential impact due to the small-scale nature of the site and distance from the Project.	<p>Hywind Scotland Pilot Park, Scotland - impact assessments - equinor.com</p> <p>https://www.power-technology.com/projects/hywind-pilot-park-aberdeenshire/</p>

Project	Location	Developer	Description	Current Status	Distance from Green Volt	Data Confidence	Potential for Cumulative Impact	Links to relevant documents
Inch Cape Offshore Windfarm	Scotland	Inch Cape Offshore Limited (Red Rock Power Limited / ESB)	The Inch Cape Offshore Windfarm, currently in late stage development, will see up to 72 turbines with an installed capacity of over 1 GW, located 15 km off the Angus Coast and connect to the National Grid at Cockenzie, East Lothian.	Consented - The project received a variation on their Section 36 consent to remove the 1 GW maximum capacity of the project in August 2021.	Approx. 163.7 km southwest of the Offshore Development Area.	High	Potential for Inch Cape construction to overlap with the Projects, resulting potential for cumulative impacts on marine mammals as a result of underwater noise generated by both projects.	Inch Cape Offshore Windfarm (Revised Design) Marine Scotland Information
Kincardine Floating Offshore Windfarm	Scotland	Kincardine Offshore Windfarm Ltd. (KOWL)	The 50 MW Kincardine Floating Offshore Windfarm consists of five Vestas V164-9.5 MW and one V80-2 MW turbine, each installed on WindFloat® semi-submersible platforms designed by Principle Power.	Operational - Site declared fully operational in October 2021.	Approx. 110.7 km southwest of the Offshore Development Area	High	As construction on the site has now concluded, potential for cumulative effect with the Kincardine Floating Offshore Windfarm is minimal.	Kincardine Offshore Windfarm Marine Scotland Information
MarramWind Floating Offshore Windfarm	Scotland	ScottishPower / Shell	Floating wind farm site located 75 km off the North East coast of Scotland in water depths averaging 100 metres, the proposed MarramWind floating offshore windfarm could deliver up to 3 Gigawatt (GW) of power.	In early planning: ScottishPower / Shell were successful in the recent ScotWind licensing round in securing the seabed lease for the site.	Approx. 8.68 km north of the Offshore Development Area	Low	Unlikely to progress prior to the Project. Cumulative impacts should be assessed in the EIA for MarramWind should the project progress.	MarramWind - Working together for a cleaner energy future

Project	Location	Developer	Description	Current Status	Distance from Green Volt	Data Confidence	Potential for Cumulative Impact	Links to relevant documents
Moray East Offshore Windfarm	Scotland	Moray Offshore Windfarm (East) Ltd	The 950 MW Moray East offshore wind farm is located in the Outer Moray Firth, 22 km off the coast of Scotland. The site is equipped with 100 MHI Vestas V164-9.5 MW offshore wind turbine generators installed on 85m-long steel jacket foundations and steel piles. It will also feature an 86 km underground export cable, of which 52 km is offshore.	Operational - The final turbine for the site was installed in September 2021, with power first being generated from the site in June 2021.	Approx. 112.6 km west of the Offshore Development Area	High	As construction on the site has now concluded, potential for cumulative effect with Moray East is minimal.	Document Library Moray East Offshore Windfarm
Moray West Offshore Windfarm	Scotland	Moray Offshore Windfarm (West) Ltd	The 900 MW Moray West offshore wind farm is located in the Outer Moray Firth, off the coast of Scotland. The project will consist of up-to 85 turbines, with construction expected to begin in 2023.	Post-consent - Consents for the project were secured in 2019, currently awaiting results of the 2022 CFD round. Construction is yet to begin.	Approx. 127.5 km west of the Offshore Development Area	High	Potential for Moray West construction to overlap with the Project, resulting potential for cumulative impacts on marine mammals as a result of underwater noise generated by both projects.	Moray West Offshore Windfarm Document Library
Morven Offshore Windfarm	Scotland	BP and EnBW	Proposed fixed foundation offshore windfarm with a 2.9 GW generating capacity. The approximately 860 km ² lease area is located around 60 km off the coast of Aberdeen.	In early planning: BP and EnBW were successful in the recent ScotWind licensing round in securing the seabed lease for the site.	Approx. 105.4 km south of the Offshore Development Area	Low	Unlikely to progress prior to the Project. Cumulative impacts should be assessed in the EIA for Morven should the project progress	bp and EnBW successful in ScotWind offshore wind bid News Home

Project	Location	Developer	Description	Current Status	Distance from Green Volt	Data Confidence	Potential for Cumulative Impact	Links to relevant documents
Muir Mhòr Floating Wind Farm	Scotland	Vattenfall / Fred. Olsen Seawind	Floating wind farm site located 67 km off the North East coast of Scotland, the proposed floating offshore windfarm could deliver up to 11 GW of power by 2030.	In early planning: Vattenfall / Fred. Olsen Seawind were successful in the recent ScotWind licensing round in securing the seabed lease for the site.	Approx. 38.5 km south of the Offshore Development Area	Low	Unlikely to progress prior to the Project. Cumulative impacts should be assessed in the EIA for Muir Mhòr should the project progress.	Vattenfall and Fred. Olsen Seawind awarded rights to build floating offshore wind farm outside Scotland - Vattenfall
Neart na Gaoithe (NNG) Offshore Windfarm	Scotland	EDF Renewables / ESB	The Neart na Gaoithe offshore wind farm will be located 15.5 km off the Fife coast and covers an area of approximately 105 km ² . The project consists of 54 turbines totalling 450 MW in generating capacity.	Under construction - Construction began in 2020 but has been impacted by the Covid-19 pandemic, first turbines will be operational in time for the wind farm to begin generating power in 2023, with completion scheduled for 2024.	Approx. 191.4 km southwest of the Offshore Development Area.	High	Potential for NNG construction to overlap with the Project, resulting potential for cumulative impacts on marine mammals as a result of underwater noise generated by both projects.	Resources - NNG Offshore Wind
Ossian Floating Offshore Windfarm	Scotland	Marubeni, SSE Renewables and CIP	Proposed floating offshore windfarm with a potential total capacity of 2,600 MW.	In early planning: Marubeni, SSE Renewables and CIP were successful in the recent ScotWind licensing round in securing the seabed lease for the site.	Approx. 101 km south of the Offshore Development Area	Low	Unlikely to progress prior to the Project. Cumulative impacts should be assessed in the EIA for Ossian should the project progress.	New Offshore Wind Farm to take name from Scottish literature SSE Renewables

Project	Location	Developer	Description	Current Status	Distance from Green Volt	Data Confidence	Potential for Cumulative Impact	Links to relevant documents
Salamander Floating Windfarm	Scotland	Simply Blue Energy / Subsea 7	The Salamander project is a pre-commercial size project, up to 200 Megawatt (MW) capacity, located off Peterhead in the East coast of Scotland. The project is the planning stage currently and is aiming to secure a Contract for Difference (CfD) in 2025 if this is the route to market taken. The project is also looking at potential offtake agreements for hydrogen. Looking to begin construction in 2026 at the earliest. Salamander has signed a memorandum of understanding with ERM to utilise the Dolphyn electrolysis, desalination and hydrogen production concept for the project.	In early planning: Site investigation planned for summer 2022. A Marine Licence Application is also anticipated in 2022. Construction in 2026 (earliest)	Approx. 36 km southwest of the Offshore Development Area	Low	Potential for temporal overlap with all phases of Salamanders lifespan given the similar timespan for development between Salamander and the Project.	Salamander Project - Floating Offshore Wind Scotland - Simply Blue Energy (salamanderfloatingwind.com) https://www.rechargenews.com/energy-transition/salamander-floating-wind-project-off-scotland-gets-gassed-up-with-new-look-hydrogen-kit/2-1-1047886

Project	Location	Developer	Description	Current Status	Distance from Green Volt	Data Confidence	Potential for Cumulative Impact	Links to relevant documents
Seagreen Offshore Windfarm	Scotland	TotalEnergies & SSE Renewables	Located 27 km off the coast of Angus, Seagreen Offshore Windfarm is under construction installing 114 turbines. First power was achieved in August 2022 and it is anticipated to be fully operational in Q2 2023.	Under construction - The first turbine within the site was installed in December 2021. A screening request was submitted in January 2022 to MS-LOT in support of a potential application to vary the existing Seagreen consents to increase the height of the remaining consented, but not constructed, 36 turbines.	Approx. 140 km southwest of the Offshore Development Area.	High	As construction on the site is anticipated to conclude in 2023, potential for cumulative effects with the Project are minimal.	Seagreen Alpha and Bravo Offshore Windfarms Marine Scotland Information
Stromar Floating Offshore Windfarm	Scotland	Falck Renewables / BlueFloat Energy / Ørsted	One of three lease sites secured by Falck Renewables and BlueFloat Energy during the recent Scotwind leasing round, together all three sites could accommodate a total of approximately 3 GW of offshore wind capacity with the projects scheduled to be operational by the end of the decade, subject to securing consent, commercial arrangements and grid connections	In early planning: Falck Renewables, BlueFloat Energy and Ørsted were successful in the recent ScotWind licensing round in securing the seabed lease for the site.	Approx. 98.7 km northwest of the Offshore Development Area	Low	Unlikely to progress prior to the Project. Cumulative impacts should be assessed in the EIA for Stromar should the project progress.	Stromar Wind

Project	Location	Developer	Description	Current Status	Distance from Green Volt	Data Confidence	Potential for Cumulative Impact	Links to relevant documents
English Offshore Wind Farms (under construction/in planning)								
Blyth Demo Phase 1	England	Blyth Offshore Demonstrator Limited	Blyth is a small coastal wind farm located 0.5 miles off the coast of Blyth, Northumberland. It has a generating capacity of 41.5 MW and was the first UK offshore wind farm to utilise float and submerge gravity base foundations.	In operation - Site fully operational since May 2015	Approx. 302 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	Blyth wind farm - EDF Renewables (edf-re.uk)
Blyth Demo Phase 2	England	Blyth Offshore Demonstrator Limited	Phase two of the Blyth Offshore Demonstrator wind farm will have floating foundations and four or five turbines with individual capacities of up to 14 MW.	In development - Marine licence variation consent for the project was granted in 2021.	Approx. 293 km south of the Project	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	Blyth 2 floating offshore wind farm - EDF Renewables (edf-re.uk)
Dogger Bank A	England	Dogger Bank Windfarm (SSE Renewables, Equinor and ENI)	One of three wind farms comprising the Dogger Bank Wind farm, Dogger Bank A is a fixed foundation OWF which will have an installed generating capacity of 1.2 GW.	Under construction - Construction began in 2020, with first power predicted to take place in Summer 2024.	Approx. 361 km southeast of the Project	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	About The Dogger Bank Windfarm Projects - Dogger Bank Windfarm https://doggerbank.com/dbc-certified-plans/
Dogger Bank B	England	Dogger Bank Windfarm (SSE Renewables, Equinor and ENI)	One of three wind farms comprising the Dogger Bank Wind farm, Dogger Bank B is a fixed foundation OWF which will have an installed generating capacity of 1.2 GW.	Under construction - Construction began in 2020, with first power predicted to take place in Summer 2023.	Approx. 335 km southeast of the Project	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	About The Dogger Bank Windfarm Projects - Dogger Bank Windfarm https://doggerbank.com/dbc-certified-plans/
Dogger Bank C	England	Dogger Bank Windfarm (SSE Renewables, Equinor and ENI)	One of three wind farms comprising the Dogger Bank Wind farm, Dogger Bank C is a fixed foundation OWF which will have an installed generating capacity of 1.2 GW.	Consented - Turbine installation predicted to begin in 2025.	Approx. 359 km southeast of the Project	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	About The Dogger Bank Windfarm Projects - Dogger Bank Windfarm https://doggerbank.com/dbc-certified-plans/

Project	Location	Developer	Description	Current Status	Distance from Green Volt	Data Confidence	Potential for Cumulative Impact	Links to relevant documents
Dogger Bank South	England	RWE Renewables	Comprised of two separate sites (Dogger Bank South East and West), the fixed foundation OWF is planned to have a total installed capacity of 3 GW.	In development - RWE Renewables were successful in the recent Round 4 licensing round in securing the seabed lease for the site.	Approx. 363 km southeast of the Project	Medium	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	Dogger Bank South Offshore Windfarms (rwe.com)
Dudgeon Offshore Windfarm	England	Dudgeon Offshore Wind Limited	The Dudgeon Offshore Windfarm is located between 32 km off the coast of the seaside town of Cromer in North Norfolk. The 402 MW windfarm is comprised of 67 6 MW wind turbine generators.	In operation - Site entered full operation in October 2017	Approx. 517 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	Dudgeon Offshore Windfarm
Dudgeon Offshore Windfarm Extension	England	Dudgeon Extension Limited	A proposed extension to the existing Dudgeon OWF, the extension will add between 15 and 26 MW to the existing site.	Examination phase – DCO application submitted in October 2022.	Approx. 511 km south of the Project	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	Dudgeon Offshore Windfarm Extension Overview
East Anglia One	England	East Anglia One Limited	East Anglia One is located approx. 50 kilometres from the coast of the English county of Suffolk and has an installed capacity of 714 MW.	In operation - Site entered full operation in July 2020	Approx. 644 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	East Anglia ONE - ScottishPower Renewables
East Anglia One NORTH	England	East Anglia One North Limited	The proposed offshore windfarm site is located in the southern North Sea, approximately 36 km from its nearest point to the port at Lowestoft and 42 km to Southwold. The proposed East Anglia ONE North project would have an operational capacity of up to 800 MW.	Consented - The project received consent in December March 2022.	Approx. 629 km south of the Project	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	East Anglia ONE North - ScottishPower Renewables https://infrastructure.planninginspectorate.gov.uk/projects/eastern/east-anglia-one-north-offshore-windfarm/?ipcsection=docs

Project	Location	Developer	Description	Current Status	Distance from Green Volt	Data Confidence	Potential for Cumulative Impact	Links to relevant documents
East Anglia Two	England	East Anglia Two Limited	The proposed offshore windfarm site is located in the southern North Sea, approximately 32.56 km from its nearest point to the coast at Southwold and 37.02 km to the port of Lowestoft. The proposed East Anglia TWO project would have an operational capacity of up to 900 MW	Consented - The project received consent in December March 2022.	Approx. 639 km south of the Project	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	East Anglia TWO - ScottishPower Renewables https://infrastructure.planninginspectorate.gov.uk/projects/eastern/east-anglia-two-offshore-windfarm/?ipcsection=docs
Five Estuaries Offshore Windfarm	England	Five Estuaries Offshore Windfarm Limited	Five Estuaries Offshore Windfarm is the sister project of the existing £1.5 billion, 353 MW Galloper Windfarm, 30 km off the coast of Suffolk.	In development - The project received an agreement for lease from TCE in September 2020. The DCO for the project is planned to be submitted in 2023.	Approx. 672 km south of the Project	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	Five Estuaries – Offshore wind farm https://infrastructure.planninginspectorate.gov.uk/projects/eastern/five-estuaries-offshore-windfarm/?ipcsection=docs
Galloper Offshore Windfarm	England	Galloper Windfarm Limited	Galloper Offshore Windfarm is a 353 MW windfarm located 30 km off the coast of Suffolk and is comprised of 56 turbines.	In operation - Site entered full operation in April 2018	Approx. 670 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	About Galloper Galloper Windfarm
Greater Gabbard Offshore Windfarm	England	Greater Gabbard Offshore Wind Limited	Greater Gabbard is a 504 MW wind farm, built on sandbanks 23 km off the coast of Suffolk in England and is comprised of 107 turbines.	In operation - Site entered full operation in 2012	Approx. 670 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	Greater Gabbard SSE Renewables

Project	Location	Developer	Description	Current Status	Distance from Green Volt	Data Confidence	Potential for Cumulative Impact	Links to relevant documents
Gunfleet Sands	England	Gunfleet Sands Limited	The Gunfleet Sands offshore wind farm is located approximately 7 km south-east of Clacton-on-Sea in Essex, UK. The wind farm has a total power output capacity of 172 MW. The wind farm was officially inaugurated in June 2010. It was commissioned in two phases, Gunfleet Sands 1 and 2, with 30 and 18 turbines respectively.	In operation - Site entered full operation in June 2010	Approx. 687 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	The Gunfleet Sands Windfarm Project, UK - Power Technology (power-technology.com)
Hornsea Project Four	England	Ørsted Hornsea Project Four Limited	Hornsea Four is an offshore wind farm which Ørsted is proposing to develop in the North Sea, approximately 69 km off the Yorkshire Coast. The project will be comprised of up to 180 turbines.	In development - The project is currently in the pre-application phase for a Development Consent Order (DCO).	Approx. 413 km southeast of the Project	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	Hornsea Project Four (hornseaprojects.co.uk) https://infrastructure.planninginspectorate.gov.uk/projects/yorkshire-and-the-humber/hornsea-project-four-offshore-wind-farm/?ipcsection=docs
Hornsea Project One	England	Hornsea 1 Limited	Located off the Yorkshire coast, the 1.2 GW Hornsea One offshore windfarm spans an area of approximately 407 km ² . The offshore wind farm uses 7 MW wind turbines, with each one 190 metres tall. The site is located 120 km east of the English mainland.	In operation - Site fully operational as of late 2020	Approx. 453 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	Hornseaprojectone.co.uk

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Hornsea Project Three	England	Ørsted Hornsea Project Three (UK) Limited	Hornsea Three will be located in the North Sea, approximately 121 km off the Norfolk coast and 160 km off the Yorkshire coast and will be comprised of up to 231 turbines with a generating capacity of 2.4 GW.	Consented - Project received consent on 31st December 2020.	Approx. 463 km southeast of the Project	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	About the project (hornseaproject3.co.uk) https://infrastructure.planninginspectorate.gov.uk/projects/eastern/hornsea-project-three-offshore-wind-farm/?ipcsection=docs
Hornsea Project Two	England	Ørsted	Hornsea Two Offshore Windfarm is located approximately 89 km (55.3 miles) off the Yorkshire coast in the North Sea and is adjacent to the operational Hornsea One OWF. The project will be comprised of 165 8 MW turbines, with an installed generating capacity of over 1.3 GW.	Fully operational since August 2022	Approx. 445 km southeast of the Project	High	As construction for Hornsea Project has concluded, the potential for cumulative effect with the Project is minimal.	Hornsea Two offshore wind farm (hornseaprojects.co.uk)
Humber Gateway	England	E.ON Climate & Renewables UK Humber Wind Limited	The Humber Gateway is a 219 MW offshore windfarm located approx. 8 km off the Holderness coast, consisting of 73 turbines on total.	In operation - Site fully operational as of June 2015	Approx. 466.7 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	Humber Gateway offshore wind farm (rwe.com)
Kentish Flats	England	Kentish Flats Limited	The site for the Kentish Flats Offshore Windfarm is a large, flat and shallow plateau north of Herne Bay and Whitstable, being comprised of 30 turbines with a total capacity of 90 MW. Since construction the site has been extended to the west and south of the original wind farm, adding 15 new turbines with a total capacity of 49.5 MW.	In operation - Site entered full operation in 2010, with the extension entering operation in June 2016.	Approx. 716 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	Power plants: Kentish Flats - Vattenfall

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Lincs Offshore Windfarm	England	Lincs Offshore Windfarm Limited	Situated off the east coast of England, the project comprises 75 turbines with a combined total capacity of 270 MW.	In operation - Site entered full operation in September 2013	Approx. 516 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	190423_ps_lincs-web_aw.ashx (azureedge.net)
London Array	England	London Array Limited	Located 20 km off the north Kent coast in the Outer Thames Estuary, London Array has a 630 MW capacity and is comprised of 175 turbines.	In operation - Site entered full operation in July 2013	Approx. 696 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	London Array – A leader in offshore renewable energy since 2013
Lynn and Inner Dowsing Windfarms	England	Inner Dowsing and Lynn Windfarm Limited	The Lynn and Inner Dowsing wind farms are a pair of round 1 wind farms located in the North Sea, in the shallow waters at the entrance to The Wash off the coast of Lincolnshire, England. The wind farms were developed as a single unit after planning consent was given in 2003. The site has a generating capacity of 194 MW from 54 3.6 MW turbines.	In operation - Site entered full operation in 2009	Approx. 519 south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	Lynn and Inner Dowsing offshore wind farm - Ramboll Group
Norfolk Boreas	England	Norfolk Boreas Limited	Norfolk Boreas will have an installed capacity of 1.8 GW, with the Offshore Development Area covering 725 km ² . The site is approximately 73 km from the Norfolk coast at its nearest point.	Consented - The project received consent in December 2021, with construction planned to begin in 2023.	Approx. 560 km south of the Project	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	Norfolk Boreas Offshore Windfarm - Vattenfall https://infrastructure.planninginspectorate.gov.uk/projects/eastern/norfolk-boreas/?ipcsection=docs

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Norfolk Vanguard	England	Norfolk Vanguard Limited	Norfolk Vanguard will have an installed capacity of 1.8 GW and is located approximately 47 km from the Norfolk coast at its nearest point.	Consented - The project received consent in December 2021, with construction planned to begin in 2023.	Approx. 569 km south of the Project	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	Norfolk Vanguard Offshore Windfarm - Vattenfall https://infrastructure.planninginspectorate.gov.uk/projects/eastern/norfolk-vanguard/?ipcsection=docs
North Falls Offshore Windfarm	England	North Falls Offshore Windfarm Limited	North Falls Offshore Windfarm is being developed in the southern North Sea more than 20 km off the UK coast and covers a total area of 150 km ² . It is an extension project to the existing 504 MW Greater Gabbard Offshore Windfarm.	In development - The project received an agreement for lease from TCE in September 2020. The DCO for the project is planned to be submitted in 2023.	Approx. 668 km south of the Project	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	North Falls Offshore Windfarm https://infrastructure.planninginspectorate.gov.uk/projects/eastern/north-falls-offshore-windfarm/?ipcsection=docs
Outer Dowsing Offshore Windfarm	England	Total / Green Investment Group	A proposed 1.5 GW OWF located in the North Sea.	In development - Total / Green Investment Groups were successful in the recent Round 4 licensing round in securing the seabed lease for the site. Scoping opinion received in September 2022.	Approx. 481 km southeast of the Project	Medium	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	Total, GIG Move Through UK's Leasing Round 4 with 1.5 GW Project Offshore Wind
Race Bank	England	Race Bank Windfarm Limited	Located off the Lincolnshire and North Norfolk coast, Race Bank Offshore Windfarm comprises of 91 turbines with a combined total capacity of 573 MW.	In operation - Site entered full operation in February 2018	Approx. 508 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	190423_ps_race-bank_a5-8pp-web_aw_v3.ashx (azureedge.net)

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Rampion	England	Rampion Offshore Wind Limited	The Rampion wind farm comprises 116 turbines on a 70 km ² site located between 13 and 20 km off the Sussex coast in the English Channel. The site is comprised of 116 turbines with a total generating capacity of 400 MW.	In operation - Site entered full operation in April 2018	Approx. 794 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	The south coast's first offshore wind farm Rampion Offshore Wind
Rampion 2 / Extension	England	Rampion Extension Development Limited	The Rampion Extension is a proposed extension to the existing Rampion windfarm and is proposed to generate up to 1200 MW when complete.	In development - Should consents be attained construction is expected to commence in 2025.	Approx. 794 km south of the Project	Medium	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	About Us - Rampion 2
Scroby Sands	England	E.ON Climate & Renewables UK Offshore Wind Limited	The Scroby Sands Windfarm is a wind farm located on the Scroby Sands sandbank in the North Sea, 2.5 km off the coast of Great Yarmouth. The site has a generating capacity of 60 MW.	In operation - Site entered full operation in 2004	Approx. 595 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	Scroby Sands offshore wind farm (rwe.com)
Sheringham Shoal Extension Offshore Windfarm Extension	England	SCIRA Extension Limited	A proposed extension to the existing Sheringham Shoal OWF, the extension will add between 15 and 26 MW to the existing site.	Examination phase – DCO application submitted in October 2022.	Approx. 522 km south of the Project	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	Sheringham Shoal Offshore Windfarm Extension Overview
Sheringham Shoal Offshore Windfarm	England	SCIRA Offshore Energy Limited	The 317 MW Sheringham Shoal Offshore Windfarm, located between 17 and 23 kilometres off the coast of North Norfolk in the UK, comprises 88 wind turbines.	In operation - Site entered full operation in September 2012	Approx. 529 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	Sheringham Shoal Offshore Windfarm Operated by Equinor

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Sofia	England	Sofia Offshore Windfarm Limited	A fixed foundation OWF comprising 100 14 MW turbines, Sofia will have an installed generating capacity of 1.4 MW.	Under construction - Construction began in 2021 with the onshore converter station, with offshore installation predicted to begin in 2023.	Approx. 346 km southeast of the Project	High	Construction could overlap with the Project, but due to distance from the Project potential for cumulative effects is minimal.	Project - Sofia Offshore Windfarm (sofiawindfarm.com) https://sofiawindfarm.com/latest/documents/
Teeside	England	Teeside Windfarm Limited	Teesside Offshore Windfarm is located off the coast of North East England, near the town of Redcar. The 27 turbine scheme is capable of delivering 62 MW of power.	In operation - Site fully operational since 2013	Approx. 355 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	Teesside - EDF Renewables (edf-renewables.com)
Thanet	England	Thanet Offshore Wind Limited	The original Thanet consists of 100 Vestas V90 wind turbines and has a total capacity of 300 MW. The wind farm is located in water depths of 20–25 metres and covers an area of 35 km ² . An application to extend the wind farm was rejected in June 2020.	In operation - Site entered full operation in September 2010	Approx. 723 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	Power plants: Thanet Offshore Windfarm - Vattenfall
Triton Knoll	England	Triton Knoll Offshore Windfarm Limited	Triton Knoll is within the Greater Wash strategic area, located off the east coast of England, approximately 20 miles off the coast of Lincolnshire and 28 miles from the coast of north Norfolk. The site has a total generating capacity of 857 MW, consisting of 90 9.5 MW turbines.	Operational since January 2022.	Approx. 487 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	Triton Knoll – Offshore Windfarm

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Westermost Rough	England	Westermost Rough Limited	The 210 MW Westermost Rough Offshore Windfarm is situated 8 km (5 miles) from the Holderness coast, approximately 25 km (15.5 miles) north of Spurn Head.	In operation - Site fully operational since May 2015	Approx. 446 km south of the Project	High	No potential for construction overlap. Potential for cumulative effect with the Project is minimal.	190218_ps_westermost-rough-web_aw.ashx (azureedge.net)
Oil and Gas developments								
Acorn Carbon Capture and Storage Site	Scotland	Storegga, Shell, Harbour	Based at the St Fergus gas terminal in North East Scotland, Acorn CCS can repurpose existing gas pipelines to take CO2 directly to the Acorn CO2 Storage Site in the North Sea. The project is a designated European Project of Common Interest (PCI). The project received a CO2 storage licence from the Oil and Gas Authority in December 2018 (the first of its kind issued in the UK), with the project looking to enter operation in the mid-2020s.	Under development Section 36 Application submitted end of March 2022 for Peterhead Carbon Capture Power Station	Approx. 2 km north of the Offshore Development Area.	High	Potential for construction activities for Acorn CCS to overlap temporally with the Project. Potential for cumulative effects to occur as a result of underwater noise, sediment disturbance and vessel traffic. It is unlikely that there will be any overlap or interaction between the two projects in terms of marine space	Documents - The Acorn Project https://www.ssethermal.com/news-and-views/2022/03/major-step-towards-low-carbon-power-at-peterhead-as-planning-application-submitted/
Disposal Sites								
North Buchan Ness	Scotland	N/A	Open dredge spoil disposal site located approximately 2 km from the Scottish coast.	Open	Approx. 1.17 km from the Offshore Export Cable Corridor	Medium	Potential for cumulative impact on water and sediment quality and benthic ecology due to sediment disturbance from the disposal site and cable installation activities for the Project.	Green Volt Data Viewer (arcgis.com)

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Cables and Pipelines								
Eastern Green link 2 (Scotland / England Green Link / Eastern Link 2/East Coast HVDC)	Scotland	SHE Transmission / National Grid	A joint proposal between SHE Transmission and National Grid, Eastern Link 2 is a HVDC cable spanning between Peterhead, Scotland and Drax in North Yorkshire.	Under development - The Marine Licence Application for the project was submitted in June 2022. Ground investigation works onshore near Peterhead began in February 2022. Installation activities for the project are due to commence in 2025, with cable installation to take place in 2026/27.	Within the southern branch of the Offshore Export Cable Corridor near the Scottish coast.	High	Potential for construction activities for Eastern Green Link 2 to overlap spatially and temporally with the Project, with potential for cumulative effects to occur as a result.	Eastern HVDC Link (ssen-transmission.co.uk) https://marine.gov.scot/sites/default/files/seg12/e12_marine_scheme_no_n-statutory_scoping_report_eastern_link_2_marine_scoping_report_v5.0_finalcombined_ifi_issued_for_information_01_1_redacted.pdf
NorthConnect HVDC Link	Scotland	NorthConnect	High Voltage Direct Current (HVDC) Interconnector cable route. Proposed to carry 1,400 MW of power. The HVDC cables will connect the Interconnector Converter Station on the 'Fourfields' site near Boddam, Peterhead to the Converter Station located in Simadalen, Norway.	Under development - Consent has been received for the project in UK waters but is awaiting consent within Norwegian waters.	This cable will be installed through the southeast section of the Offshore Development Area.	High	Potential for construction activities for NorthConnect to overlap spatially and temporally with the Project, with potential for cumulative effects to occur as a result.	Home NorthConnect North Connect https://marine.gov.scot/ml/northconnect-hvdc-cable

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Other Works								
Aberdeen Harbour Expansion	Aberdeen, Scotland	Aberdeen Harbour Board	<p>Aberdeen Harbour – South Harbour expansion project. The Aberdeen Harbour expansion will mainly involve dredging within Nigg Bay to construct two breakwaters and develop quayside on the north and west sides of the bay.</p> <p>It will include 1,400 m of new quay with a water depth of up to 10.5 m and 125,000 m² of lay-down area. The turning circle of the harbour will be 300m, while its channel width will be 165m.</p> <p>Two rubble mound breakwaters 634 m-long and 640 m-long will be built around the south harbour to protect it from the wave climate. More than 1,424 m of quayside will be built for the berthing of vessels.</p> <p>The existing bay will also be dredged to a depth of 9 m and temporary road and coastal path diversions will be built as part of the expansion.</p>	Under construction - Construction began in 2017, due to conclude in October 2022.	Approx. 110 km south of the Offshore Development Area.	High	Unlikely due to distance from the Project. Works likely to be completed before the Project begins construction.	ahb-rep1-r4.pdf (marine.gov.scot) http://aberdeen-harbour.co.uk/south-harbour/
Construction of Outfall Pipe - North Base Jetty, Peterhead Harbour	Peterhead, Scotland	Lunar Freezing & Cold Storage Co Ltd	Installation of new sea outfall and intake at existing ASCO North Base jetty in Peterhead Harbour, consisting of three submersible pumps suspended from the jetty and a diffuser consisting of three 5x5m frames.	Application submitted - Licence application submitted but consent not yet granted.	Approx. 0.3 km north of the southern branch of the Offshore Export Cable Corridor	Medium	Unlikely due to the works small spatial scope. Works likely to be completed before the Project begins construction.	Marine Licence Application - Construction of Outfall Pipe - North Base Jetty, Peterhead Harbour - 00009434 Marine Scotland Information

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Sea Wall Repair and Extension - Alexandra Parade	Peterhead, Scotland	Peterhead Port Authority	Works to repair the Alexandra Parade seawall and revetment is located on the northern boundary of Peterhead Harbour adjacent to North harbour, damaged during a storm event in 2012. The seawall and revetment acts as a sea defence to the fish processing facility and harbour related businesses that are vital to the operation of the harbour located behind the revetment. Works to involve re-profiling of the existing revetment, formation of a toe trench and placement of various sizes of rock armour and pre-cast concrete units within the toe trench to create the toe mound, on the existing embankment and along the crest extending to the existing seawall.	Consented - The project received consent in May 2021, but works are yet to be undertaken.	Approx. 2.41 km south of the northern branch of the Offshore Export Cable Corridor	High	Potential for construction activities for the Sea Wall Repair to overlap spatially and temporally with the Project, with potential for cumulative effects to occur as a result.	Report (marine.gov.scot) https://marine.gov.scot/sites/default/files/marine_scotland_licence_ms-00009243.pdf



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