



Technical Appendix 20.2

Oil and Gas Decommissioning Plans

Offshore EIA Report: Volume 2

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REPORT

Green Volt Offshore Windfarm Environmental Impact Assessment

Appendix 20.2: Decommissioning Plans for
Consideration from Nearby Oil & Gas Facilities

Client: Green Volt Offshore Windfarm Ltd

Reference: PC2483-RHD-ZZ-XX-RP-Z-0056

Status: Final/01

Date: 18 January 2023

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Revision history

| Revision | Date | Description | Prepared | Checked | Approved |
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| 1 | 16/11/2022 | First draft | CC (Royal HaskoningDHV) | CM (Royal HaskoningDHV) | VC (Flotation Energy) |
| 2 | 15/12/2022 | Second draft | SF (Royal HaskoningDHV) | CM (Royal HaskoningDHV) | VC (Flotation Energy) |
| 3 | 13/01/2023 | Final for submission | HF (Royal HaskoningDHV) | JM (Royal HaskoningDHV) | VC (Flotation Energy) |

Acronyms

| Acronvm | Description |
|----------------|---------------------------------|
| CIA | Cumulative Impact Assessment |
| EIA | Environmental Impact Assessment |
| MHWS | Mean High Water Springs |
| O&G | Oil and gas |
| P&A | Plus and abandonment |

APPENDIX 20.2: DECOMMISSIONING PLANS FOR CONSIDERATION FROM NEARBY OIL & GAS FACILITIES

1. This appendix provides insight into the decommissioning plans of oil and gas (O&G) facilities for consideration in the Cumulative Impact Assessment (CIA) of the construction phase of the Project (in this instance the Project refers to the offshore elements of the Green Volt Offshore Windfarm only, up to Mean High Water Springs (MHWS)).
2. It is necessary to consider any cumulative impacts the construction of the Project may have if it coincides with the decommissioning of any of the nearby O&G facilities. See **Table 1** below.
3. All existing developments in the operation and maintenance phase have already been captured as a necessary part of the baseline within the technical chapters of the Green Volt Offshore Windfarm **Offshore Environmental Impact Assessment (EIA) Report** technical chapters and therefore are not presented in this appendix.
4. In summary, none of these oil and gas decommissioning plans have been screened in for CIA across all of the environmental receptors due to low magnitude and short-lived nature of impacts, and distance from the Offshore Development Area.
5. Across all the oil and gas decommissioning plans, all buried infrastructure will be left in-situ. It is anticipated that small, localised, short-lived changes in suspended sediment concentration may occur during decommissioning, but these are likely within the range of natural variability. Given the water depths and distances of all O&G facilities, any changes will have no cumulative effects with the Project.

Table 1: List of decommissioning plans for consideration in the CIA

| Decommissioning Plan | Approximate Distance from Green Volt Windfarm Site | Project Definition | Data Confidence | Relevant receptors | Rationale |
|---|--|---|-----------------|--------------------|--|
| Balmoral, Brenda, Stirling, Glamis, and Nicol | 100 km northeast | Decommissioning activities have been underway since 2018 and are anticipated until 2028. All five of these oil and gas fields projects form part of greater programme of decommissioning for the greater balmoral area, and each field has its own decommissioning programme. | High | No | No receptors screened in due to the distance of the Project from the fields, the potential for cumulative effects is very unlikely. |
| Banff and Kyle | 143 km South | Decommissioning activities (all subsea installations (including trees and wellheads) and stabilisation materials; drill cuttings; the pipelines (including spools and jumpers and stabilisation materials); remaining mooring infrastructure and associated remediation; and well decommissioning) anticipated between 2022 and 2027. | High | No | |
| Brae Bravo Topsides, Flare Bridge, Flare Tower and Flare Jacket/Sub-structure | 140 km northeast | Decommissioning is anticipated until 2030, with subsea plug and abandonment (P&A) anticipated from 2023 to 2025, and removal of subsea structures from Q3 2025 to 2029, followed by a post-removal survey in 2029 for final close-out report in 2030. | High | No | |
| Buchan and Hannay | 33 km east | The decommissioning of the Buchan and Hannay fields in the North Sea, UK, has been underway since 2017 and is expected to be completed in Q3 of 2024. | High | No | No receptors screened in due to decommissioning activities planned to end in Q3 2024 and therefore unlikely to overlap with construction period. |
| Caledonia | 96 km northeast | Decommissioning of subsea installations and pipelines anticipated to end 2029. Well plug and abandonment to take place between mid-2023 and mid-2027. | High | No | No receptors screened in due to the distance of the Project from the fields, the potential for cumulative effects is very unlikely. |
| Ettrick and Blackbird | Within | Production ceased in 2016 and decommissioning is currently being finalised. | High | No | No receptors screened in due to decommissioning activities planned to end in Q3 2024 and therefore unlikely to overlap with construction period. |
| Hummingbird Spirit floating production storage and offloading vessel, and removal of the associated riser systems | 102 km east | Well decommissioning to take place from 2023 to end Q3 2025, and decommissioning of remaining infrastructure to take place until end Q2 2028. | High | No | No receptors screened in due to the distance of the Project from the fields, the potential for cumulative effects is very unlikely. |
| Remaining Chestnut | 102 km east | Works to take place following decommissioning of Hummingbird | High | No | |

| Decommissioning Plan | Approximate Distance from Green Volt Windfarm Site | Project Definition | Data Confidence | Relevant receptors | Rationale |
|--|--|---|-----------------|--------------------|--|
| installations and associated pipeline infrastructure | | Spirit floating production storage and offloading vessel, and removal of the associated riser systems. Decommissioning works have been underway since 2021 and are anticipated to finish at the end of 2029. | | | |
| East Brae Topsides and Braemar | 145 km northeast | Decommissioning is anticipated until 2027, with subsea removal activities, disposal and survey windows anticipated from 2025. | High | No | |
| Goldeneye | 13 km northeast | Decommissioning activities have been ongoing since 2018 and are anticipated to last until end 2024 | High | No | |
| Huntington | 130 km east | Decommissioning activities have been ongoing since 2018 and are anticipated to continue until 2028. | High | No | |
| Saltire A Topsides and Saltire Area Subsea Infrastructure | 74 km northeast | Principal decommissioning activities anticipated to begin from Q2 2027 and last until 2033 | High | No | |
| Scoter & Merganser Fields | 164 km southeast | Subsea removals anticipated to last until end 2026 and wellhead severance taking place throughout 2025. | High | No | |
| Tartan Subsea – Tartan North Terrace (TNT) & Tartan Satellite (TS) | 62 km north | Decommissioning of the subsea infrastructure associated with the Tartan Subsea TNT & TS, Tartan Oil Export Pipeline, Tartan Gas Import Pipeline) fields operated by Repsol Sinopec Resources UK Limited. Decommissioning activities begun in Q3 of 2020 and are anticipated to conclude in 2037 latest. | High | No | No receptors screened in due to the decommissioning period unlikely to overlap with the Project's construction period as decommissioning removals set to begin Q2 2029. |
| Tartan Topsides | 62 km north | Decommissioning of the Topsides Facilities associated with the Tartan Alpha (A) Platform operated by Repsol Sinopec Resources UK Limited. Decommissioning activities begun in Q3 of 2020 and are anticipated to conclude in 2037 latest. | High | No | No receptors screened in because only Make safe activities are anticipated during 2027, with all other decommissioning activities set to begin in 2029. Decommissioning period therefore unlikely to overlap significantly with the Project's construction period. |



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