



Technical Appendix 20.2

Oil and Gas Decommissioning Plans

Offshore EIA Report: Volume 2

This page is intentionally blank

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

HASKONINGDHV UK LTD.

74/2 Commercial Quay
Leith
Commercial Street
Edinburgh
EH6 6LX
Industry & Buildings
VAT registration number: 792428892

+44 131 5550506 **T**
info.edinburgh@uk.rhdhv.com **E**
royalhaskoningdhv.com **W**

Document title: Green Volt Offshore Windfarm Environmental Impact Assessment

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

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

Status: 01/Final

Date: 18 January 2023

Project name: Green Volt Offshore Windfarm

Project number: PC2483

Classification

Open

Unless otherwise agreed with the Client, no part of this document may be reproduced or made public or used for any purpose other than that for which the document was produced. HaskoningDHV UK Ltd. accepts no responsibility or liability whatsoever for this document other than towards the Client.

Please note: this document contains personal data of employees of HaskoningDHV UK Ltd.. Before publication or any other way of disclosing, consent needs to be obtained or this document needs to be anonymised, unless anonymisation of this document is prohibited by legislation.

Revision history

Revision	Date	Description	Prepared	Checked	Approved
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.



Royal HaskoningDHV is an independent, international engineering and project management consultancy with over 138 years of experience. Our professionals deliver services in the fields of aviation, buildings, energy, industry, infrastructure, maritime, mining, transport, urban and rural development and water.

Backed by expertise and experience of 6,000 colleagues across the world, we work for public and private clients in over 140 countries. We understand the local context and deliver appropriate local solutions.

We focus on delivering added value for our clients while at the same time addressing the challenges that societies are facing. These include the growing world population and the consequences for towns and cities; the demand for clean drinking water, water security and water safety; pressures on traffic and transport; resource availability and demand for energy and waste issues facing industry.

We aim to minimise our impact on the environment by leading by example in our projects, our own business operations and by the role we see in “giving back” to society. By showing leadership in sustainable development and innovation, together with our clients, we are working to become part of the solution to a more sustainable society now and into the future.

Our head office is in the Netherlands, other principal offices are in the United Kingdom, South Africa and Indonesia. We also have established offices in Thailand, India and the Americas; and we have a long-standing presence in Africa and the Middle East.

This page is intentionally blank



Flotation Energy Ltd | 12 Alva Street | Edinburgh EH2 4QG | Scotland

Tel: [REDACTED] | enquiries@flotationenergy.com | www.flotationenergy.com