

Continuation sheet 2

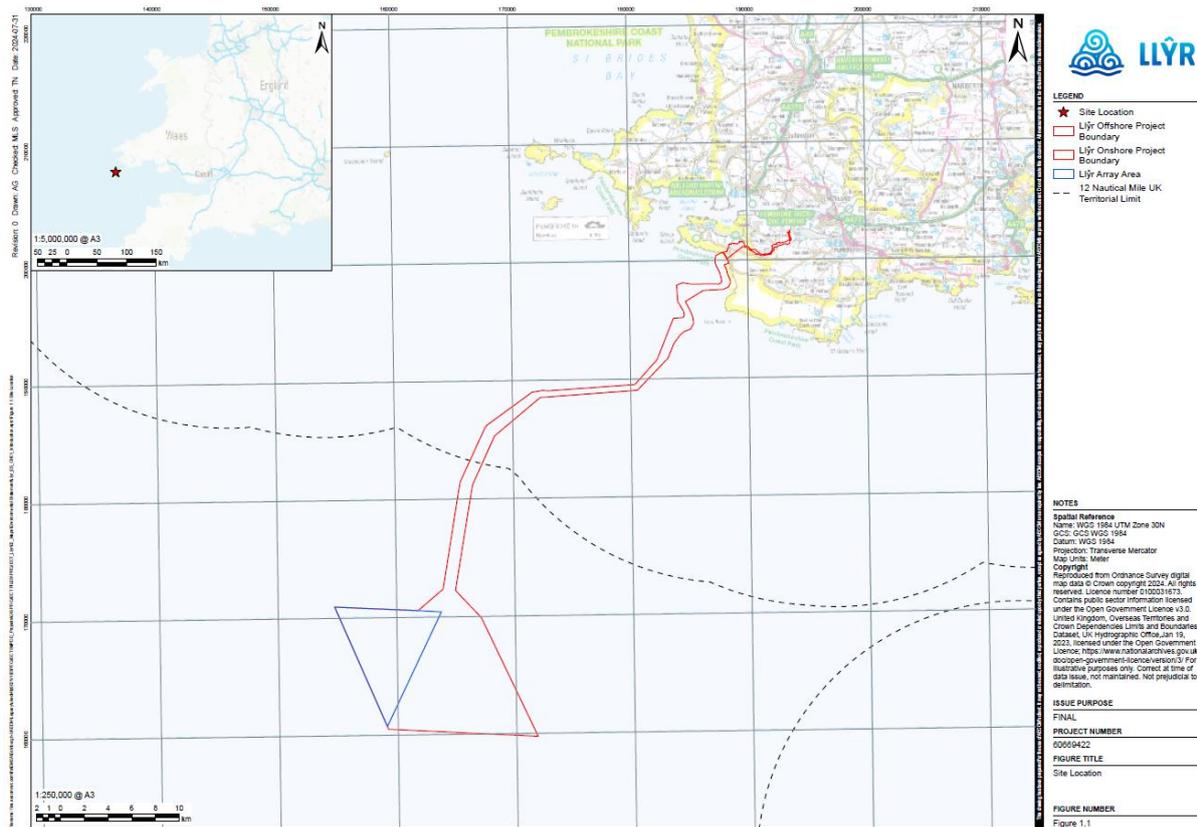


Figure 1.1 - Site Location

Table 2. Marine Licence document register

Marine Licence Documents – Application Form and Supporting Material
240828 Llŷr Floating Wind Marine Licence application form
Continuation sheet 1
Continuation sheet 2
Llŷr ES Consultation Report FINAL
Llŷr ES NTS Final
Llŷr ES Planning and Design Access Statement FINAL
Environmental Statement (see table 3)
Llŷr OWF Marine Works Application Form 21 March 2024 V01

Table 3. Master Environment Statement document register

LLŶR FLOATING WIND ENVIRONMENT STATEMENT	
Chapter	ES Chapter/report
Volume 1 The Proposed Project	
1	Introduction
2	Regulatory and Planning Context
3	Site Selection and Alternatives
4	Description of the Proposed Project
5	Environmental Impact Assessment (EIA) Approach and Methodology
6	Consultations and Stakeholder Engagement
Volume 2 Terrestrial Baselines	
7	Landscape and Visual
8	Ecology and Biodiversity
9	Onshore Historic Environment and Cultural Heritage
10	Terrestrial Water Environment
11	Geology and Hydrogeology
12	Agriculture and Soils
13	Traffic and Transport
14	Air Quality
15	Noise and Vibration
16	Socio-economics, Recreation and Tourism
Volume 3 Marine Baselines	
17	Physical Environment
18	Marine Water and Sediment Quality
19	Benthic Ecology
20	Fish and Shellfish Ecology

Volume 3 Marine Baselines	
21	Marine Mammals
22	Marine Ornithology
23	Seascape, Landscape and Visual
24	Marine Archaeology and Cultural Heritage
25	Shipping and Navigation
26	Commercial Fisheries
27	Aviation and Radar
28	Other Sea Users
Volume 4 Project-wide Effects	
29	Climate
30	Major Accidents and Disasters
31	Inter-related Effects Assessment
32	Residual Effects
Volume 5 Figures	
Figure 01.1	Site Location
Figure 01.2	Jurisdiction
Figure 02.2	Onshore Plan
Figure 03.02	Llyr 1 and Llyr 2 agreement for lease areas
Figure 03.03	Llyr 1 Array Area Revisions
Figure 03.04	Llyr Seabed Desktop Review Area
Figure 03.05	Llyr 1 Boundary Comparison
Figure 03.06	Survey data coverage and identification of a nearshore Cable
Figure 03.07	Nearshore Cable Route
Figure 03.08	Landfall Locations Considered During the Appraisal Stage
Figure 03.09	Potential Landfall Locations Considered

Volume 5 Figures	
Figure 03.10	Indicative Onshore Cable Route
Figure 03.11	Substation Locations Considered
Figure 04.1	Proposed project Offshore Development Area
Figure 04.2	Proposed project Onshore Development Area
Figure 04.3	Nearshore Cable Routing
Figure 04.4	Indicative Locations of Sandwave Levelling along the OfECC
Figure 04.5	Potential Crossing Points with the Onshore Cable
Figure 05A-1	Onshore Longlist Projects
Figure 05A-2	Llyr Offshore Longlisted Projects
Figure 05A-3	Llyr Offshore Longlist Project Detail
Figure 07.01	Landscape Designations
Figure 07.02	National Landscape Character
Figure 07.03	Local Landscape Character
Figure 07.04	Topography
Figure 07.05	LANDMAP Visual and Sensory Evaluation
Figure 07.06	Night Time Baseline
Figure 07.07	Onshore ZTV and Viewpoints
Figure 07.08	Indicative Landscape Mitigation Plan
Figure 07.09	Onshore Cumulative Developments
Figure 07.10	Cumulative Onshore ZTV (Greenlink and Erebus + proposed Project)
Figure 08.01	Site Boundary
Figure 08.02	Internationally Designated Sites within 5 km
Figure 08.03	Nationally Designated Sites within 2 km
Figure 08.04	Internationally and Nationally Designated Sites within 10 km

Volume 5 Figures	
Figure 08.05	Habitats of Principal Importance within 30 m
Figure 08.06	Phase 1 Habitat Map
Figure 08.07	Dormouse Habitat Suitability
Figure 08.08	Reptile Habitat Suitability
Figure 08.09	Badger Field Sign
Figure 08.10	Areas assessed by Greenlink and Erebus
Figure 08.11	Cumulative Effects
Figure 08A-1	2023 Chough Survey Visit 1
Figure 08A-2	2023 Chough Survey Visit 2
Figure 08A-3	2023 Chough Survey Visit 3
Figure 08A-4	2023 Chough Survey Visit 4
Figure 09.1	Site Location
Figure 09.2	Non-Designated Historic Receptors
Figure 09.3	Designated Historic Receptors
Figure 09.4	Land Covered by Heritage Field Walkover within RLB
Figure 09.5	Newly Identified Historic Receptors
Figure 09.6	Historic Landscape Character Areas
Figure 09.7	Projects Considered for Cumulative Effects Assessment
Figure 10.1	Study Area
Figure 10.2	Surface Water Features and Their Attributes
Figure 10.3	Identified Ordinary Watercourses
Figure 10.4	Groundwater Features and their Attributes
Figure 10.5	Designated Sites
Figure 10.6	Water Resource Information
Figure 10.7	Cumulative Effects Assessment for Water Environment

Volume 5 Figures	
Figure 10B.1	Onshore Water Environment Site Survey Locations
Figure 11.1	Onshore Development Area
Figure 11.2	Study Area
Figure 11.3	Geological Designated Sites and MSZ
Figure 11.4	Potential Areas of Contamination
Figure 11.5	Cumulative Effects Projects
Figure 11A.1	Study Area
Figure 11A.2	Superficial Geology
Figure 11A.3	Bedrock Geology
Figure 11A.4	Discharge consents, hazardous substances, historical tanks and pollution incidents
Figure 12.1	Predictive Agricultural Land Classification Grades
Figure 13.1	Substation Area
Figure 13.2	Road Network
Figure 13.3	ATC Sites
Figure 13.4	Sensitive Receptors
Figure 14.1	Air Quality Receptors
Figure 15.1	Noise and Vibration Study Area, Sensitive Receptors and Monitoring Locations
Figure 16.6	Pembrokeshire LSOA and Pembrokeshire Local Authority
Figure 16.7	PROW Routes Close to the Proposed Development
Figure 16.8	Recreational Receptors
Figure 16.9	Residential and Business Properties
Figure 23.01	Landscape Designations
Figure 23.02	National Seascape Character
Figure 23.03	Local Seascape Character

Volume 5 Figures	
Figure 23.04	National Landscape Character
Figure 23.05	Local Landscape Character
Figure 23.06	LANDMAP Visual and Sensory Evaluation
Figure 23.07	Night Time Baseline
Figure 23.08a	Offshore ZTV and Viewpoints
Figure 23.08b	Offshore ZTV and Viewpoints
Figure 23.09a	Offshore Hub Height ZTV and Viewpoints.
Figure 23.09b	Offshore hub height ZTV and Viewpoints
Figure 23.10a	Offshore Night Time ZTV and Night Time Viewpoints
Figure 23.10b	Offshore Night Time ZTV and Night Time Viewpoints
Figure 23.11	Cumulative Projects Included in Assessment
Figure 23.12	Offshore Cumulative ZTV (existing schemes + proposed Project)
Figure 23.13	Offshore Cumulative ZTV (existing and consented schemes + proposed Project)
Figure 23.14	Offshore Cumulative ZTV (existing, consented and application schemes + proposed Project)
Figure 23.15	Offshore Cumulative ZTV (existing, consented, application and scoping schemes + proposed Project)
Figure 23.16	Offshore Cumulative ZTV Night time (existing and consented schemes + proposed Project)
Figure 23.17	Offshore Cumulative Night-time ZTV (existing, consented and application schemes + proposed Project)
Figure 23.18	Offshore Cumulative Night-time ZTV (existing, consented, application and scoping schemes + proposed Project)
Figure 24.01	Offshore Development Area
Figure 24.02	Offshore development area and WSA
Figure 24.03	Geophysical survey coverage
Figure 24.04	Freshwater West Heritage Assets

Volume 5 Figures	
Figure 24.05	Freshwater West submerged forests
Figure 24.06	ODA heritage Assets overview
Figure 24.07	ODA heritage Assets zoom 1
Figure 24.08	ODA heritage Assets zoom 2
Figure 24.09	Milford HLA
Figure 24.10	CA1025
Figure 24.11	CA1026
Figure 24.12	CA1029
Figure 24.13	CEA overlapping Projects
Figure 24A-02	Freshwater West landfall
Figure 24A-03	ODA plus WSA
Figure 24A-04	glacial limits
Figure 24A-05	submerged palaeolandscape features
Figure 24A-06	Freshwater West submerged forests
Figure 24A-07	ODA WSA heritage Assets overview
Figure 24A-08	ODA Heritage Assets overview
Figure 24A-09	Freshwater West heritage Assets
Figure 24A-10	ODA heritage Assets zoom 1
Figure 24A-11	ODA heritage Assets zoom 2
Figure 24A-13	Milford HLA
Figure 24A-14	WSA heritage Assets overview
Figure 24A-15	WSA heritage Assets zoom 1
Figure 24A-16	WSA heritage Assets zoom 2
Figure 24A-17	WSA heritage Assets zoom 3

Volume 5 Figures	
Figures 24B18 to 24B-47	<ul style="list-style-type: none"> • Distribution of geophysical anomalies with archaeological potential across the study area (6 Figures) • Archaeological Anomaly 1002 to 1029 (17 Figures) • Nearshore sediment thickening on the approach to Freshwater West (1 Figure) • Modern seabed deposit thickening within sandbank (1 Figure) • Late Pleistocene channel fills within the centre of the export cable route (1 Figure) • Late Pleistocene multi-phase fills within the centre of the export cable route (1 Figure) • Late Pleistocene parallel stacked facies Hyperbolae indicative of boulders within Late Pleistocene deposits (1 Figure) • Late Pleistocene channels within the array area (1 Figure)
Figure 24C-01	Offshore Development Area
Figure 24C-02	ODA plus WSA
Figure 24C-03	Geophysical survey coverage
Figure 24C-04	Landfall survey areas
Figure 24C-05	Freshwater West submerged forests
Figure 24C-06	ODA heritage Assets overview
Figure 24C-07	ODA heritage Assets zoom 1
Figure 24C-08	ODA heritage Assets zoom 2
Figure 24C-09	CA1025
Figure 24C-10	Landfall survey data v4
Figure 24C-11	Milford HLA
Figure 24C-12	CA1026 v4
Figure 24C-13	CA1029
Volume 5 Figures – Vantage Point Figures	
Figure VP05.1 to VP05.5	
Figure VP06.1 to VP06.5	
Figure VP07.1 to VP07.5	

Volume 5 Figures – Vantage Point Figures
Figure VP08.1 to VP08.5
Figure VP09.1 to VP09.5
Figure VP10.1 to VP10.5
Figure VP11.1 to VP11.5
Figure VP12.1 to VP12.5
Figure VP13.1 to VP13.5
Figure VP14.1 to VP14.5
Figure VP15.1 to VP15.3
Figure VPN1.1 to VPN1.7
Figure VPN2.1 to VPN2.7
Figure VPN3.1 to VPN3.7
Figure VP A.1 to A.2
Figure VP B.1 to B.4b
Figure VP C.1 to C.2
Figure VP D.1 to D.4b
Figure VP E.1 to E.2
Figure VP F.1 to F.2
Figure VP G.1 to G.4b
Figure VP H.1 to H.2
Figure VP I.1 to I.4b
Figure VP01.1 to VP01.5
Figure VP02.1 to VP02.5
Figure VP03.1 to VP03.3
Figure VP04.1 to VP04.5

Volume 6 Technical Appendices	
1A	Statement of Competence
3A	Offshore Cable Route Assessment
3B	Offshore Geological Desk Study
3C	Landfall Assessment
4A	Outline Construction Environmental Management Plan (OCEMP)
4B	Invasive Non-Native Species (INNS) Management Plan
4C	Post Consent Environmental Management Plan Log
4D	Assumptions Log
4E	Red Line Boundary Coordinates
5A	Approach to Cumulative Effects Assessment
5B	Scoping Opinion
5C	Scoping Opinion Response
6A	Technical Engagement Log
7A	LVIA Methodology
7B	LVIA Detailed Assessment
7C	LVIA Cumulative Assessment
8A	Chough Survey Report
8B	Preliminary Ecological Assessment (PEA) Report
8C	Bat Survey Report
8D	Habitats Regulations Assessment Screening
8E	Habitats Regulations Assessment – Report to Inform Appropriate Assessment
8F	Green Infrastructure Statement
9A	Historic Environment Desk-Based Assessment
10A	Flood Consequence Assessment

Volume 6 Technical Appendices	
10A – Annex A	Drainage Strategy
10B	Onshore Water Environment Site Survey Report
10C	Onshore Water Framework Directive Assessment
10D	Offshore Water Framework Directive Assessment
11A	Phase 1 Geo-environmental Desk Study Report
11B	Land Contamination Methodology Tables
11C	Potential Areas of Contamination: Site Rating and Further Risk and Impact Assessment
11D	Assessment of Effects and Significant
13A	Automatic Traffic Counts (ATC) Summary Sheets
13B	Raw Accident Data From Pembrokeshire County Council
13C	Trip End Model Presentation Program (TEMPRO) Output
13D	Project Erebus Traffic and Transportation Environmental Statement Chapter
13E	Project Erebus Outline Construction Traffic Management Plan
13F	Personal Injury Collision Data Analysis
15A	Human Hearing and Acoustic Terminology
15B	Noise Modelling
17A	SEA Geophysical Survey Report
17B	MultiBeam EchoSounder (MBES) Survey Report
19A	2023 OEL Nearshore Benthic Characterisation Survey
19B	2023 OEL Offshore Benthic Characterisation Survey
19C	Electromagnetic Field (EMF) Assessment
19D	Proposed Export Cable Route Benthic Characterisation Drop Down Video (DDV) Survey
19E	Proposed Export Cable Route Benthic Characterisation Survey 2024: Habitat Assessment

Volume 6 Technical Appendices	
20A	Marine Conservation Zone Assessment
21A	Marine Mammal and Megafauna Baseline
21A – Annex A	Additional Model-Based Maps
21A – Annex B	Design-Based Estimates
21B	Underwater Noise Impact Study
21C	Marine Mammal Underwater Noise Assessment
21C – Annex A	Impact Assessment Maps
21C – Annex B	Common Dolphin impact assessment comparison
22A	Marine Ornithology Baseline <i>Document also contains:</i> <i>22A – Annex A - All Seabird Observations at Llŷr</i>
22A – Annex B	Survey Data Analysis - Technical Papers
22A – Annex C	Additional Model-Based Maps
22A – Annex D	Design-Based Estimates
22B	Marine Ornithology Colony Apportioning <i>Document also contains:</i> <i>22B – Annex A – SPA Colony Counts</i>
22C	Ornithological Collision Risk Modelling Report <i>Document also contains:</i> <i>22C – Annex A – Monthly Collision Risk Figures</i>
22C – Annex B	CRM Input Output Logs (zip file)
22D	Marine Ornithology Displacement Assessment <i>Document also contains:</i> <i>22D - Annex A - EIA Seasonal Displacement Matrices</i> <i>22D - Annex B - SPA Seasonal Displacement Matrices</i>
22D - Annex C	SeabORD Displacement Modelling
22E	Marine Ornithology Project Alone and Cumulative Impact Scenarios

Volume 6 Technical Appendices	
22F	Marine Ornithology Population Modelling
23A	Seascape, Landscape and Visual Impact Assessment (SLVIA) Methodology
23B	Seascape, Landscape and Visual Impact Assessment (SLVIA) Preliminary Assessment
23C	Seascape, Landscape and Visual Impact Assessment (SLVIA) Detailed Assessment
23D	Night-time Visual Assessment
23E	SLVIA Cumulative Assessment
24A	Marine archaeological desk-based assessment
24B	Archaeological review of marine geophysical and landfall survey data
24C	Marine Archaeology and Cultural Heritage Technical Report
25A	Navigational Risk Assessment
26A	Commercial Fisheries Baseline Report
27A	Aviation Risk Assessment Technical Report
30	Major Accidents and Disasters (MA&D) Environment Risk Record
32A	Mitigation Register