

### **Morecambe Offshore Windfarm: Generation Assets**

#### **Examination Documents**

Volume 9

**Commitments Register (Tracked)** 

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Rev 032





#### **Document History**

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Assets (	the Project)						9

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# **Glossary of Acronyms**

AEZ	Archaeological Exclusion Zone
AIS	Aeronautical Information Service
AtoN	Aids To Navigation
AIP	Aeronautical Information Publication
ATN	Aids to navigation
CAA	Civil Aviation Authority
CBRA	Cable Burial Risk Assessment
COLREGS	Convention for the Prevention of Collision at Sea
DCO	Development Consent Order
DGC	Defence Geographic Centre
DML	Deemed Marine Licence
EMF	Electromagnetic fields
ERCoP	Emergency Response Cooperation Plan
ES	Environmental Statement
FLCP	Fisheries Liaison Co-existence Plan
FLOWW	Fishing Liaison with Offshore Wind and Wet Renewables Group
HAT	Highest Astronomical Tide
GHG	Greenhouse Gas
IEC	International Electrotechnical Commission
INNS	Invasive Non-Native Species
IMO	International Maritime Organisation
IPMP	In Principle Monitoring Plan
IFP	Instrument Flight Procedures
LAT	Lowest Astronomical Tide
MGN	Marine Guidance Note
MMMP	Marine Mammal Mitigation Plan
MMO	Marine Management Organisation
MOD	Ministry of Defence
MCA	Maritime and Coastguard Agency
MPCP	Marine Pollution Contingency Plan
NOTAM	Notice to Airmen
NtMS	Notice to Mariners
PAD	Protocol for archaeological discoveries
PEIR	Preliminary Environmental Information Report



PEMP	Project Environmental Management Plan
PATP	Port Access and Transport Plan
PSR	Primary Surveillance Radar
RAF	Royal Air Force
SAR	Search and Rescue
TCE	The Crown Estate
TEZ	Temporary Exclusion Zone
TH	Trinity House
UKHO	United Kingdom Hydrographic Office
UWSMS	Underwater Sound Management Strategy
UXO	Unexploded Ordnance
VTMP	Vessel Traffic Management Plan
WSI	Written Scheme of Investigation
WTG	Wind Turbine Generator

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# **Glossary of Unit Terms**

km²	square kilometre
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# **Glossary of Terminology**

Applicant	Morecambe Offshore Windfarm Ltd
Generation Assets (the Project)	Generation assets associated with the Morecambe Offshore Windfarm. This is infrastructure in connection with electricity production, namely the fixed foundation wind turbine generators (WTGs), inter-array cables, offshore substation platform(s) (OSP(s)) and possible platform link cables to connect OSP(s).
Inter-array cables	Cables which link the WTGs to each other and the OSP(s).
Morgan and Morecambe Offshore Wind Farms: Transmission Assets	The Transmission Assets for the Morgan Offshore Wind Project and the Morecambe Offshore Windfarm. Also referred to in this report as the Transmission Assets, for ease of reading.
Offshore substation platform(s)	A fixed structure located within the windfarm site, containing electrical equipment to aggregate the power from the WTGs and convert it into a more suitable form for export to shore.
Platform link cable	An electrical cable which links one or more OSP(s).
Windfarm site	The area within which the WTGs, inter-array cables, OSP(s) and platform link cables will be present.

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Table 1 Commitments register for the Morecambe Offshore Windfarm Generation Assets (the Project)

		evan ject	t phase	Commitment title	Commitment detail	Rele	vant E	nviron	mental	State	ement (	ES) to	opic									How is commitment secured / implemented	Commitment type	Decision maker / relevant	Relevant Application documents
	Pre-construction	Construction	Operation and Maintenance			Site Selection and	Project Description	EIA Methodology	Marine Geology,Oceanography & Physical Processes Marine Sediment and Water	Quality Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage Civil and Military Aviation and	Kadar Infrastructure and Other Users	SLVIA	Human Health Socio-economics	Tourism and Recreation Climate Change	Traffic and Transport		Embedded mitigation Additional mitigation Monitoring Compensation	authority	documents -
	*	*	*	Monitoring	Offshore monitoring requirements are described in the In Principle Monitoring Plan (IPMP) (REP3-045) submitted alongside the Development Consent Order (DCO) application. The IPMP include measures committed to, as well as options that will form the basis of discussion post-consent. The monitoring requirements will be further developed and agreed with stakeholders prior to construction based on the IPMP and taking account of the final detailed design of the Project.				*	k	t *	*	*	*	*	*						Development Consent Order (DCO)), Schedule 6, Part 2 - Condition 9(1)(c) & 14 (1)	*	Marine Managemen Organisatior (MMO)	t In-Principle Monitoring Plan (REP3-045)
0000	* *	*		Cable burial	The cable burial range would be between 0.5m and 3.0m below th seabed (with a target depth of 1.5m where ground conditions allow recognised industry good practice which would reduce effects of electromagnetic fields (EMF))). A Cable Burial Risk Assessment (CBRA) would also be required to confirm the extent to which cable burial can be achieved. Where it is not reasonably practicable to achieve cable burial, additional cable protection may would be required. Following industry best-practice the Applicant would see to minimise the use of cable protection. No more than 5% reduction water depth (referenced to Chart Datum) would occur at any point on the cable route without prior written approval from the Licensing Authority.	e	*		*	3	* *	*		*	*		*					DCO Schedule 6 Part 2 Condition 9(1)(d)(i) - Cable specification, installation and monitoring and 9(1)(d)(ii) - scour protection management and cable protection management	*	MMO Maritime and Coastguard Agency (MCA) Trinity House (TH)	Chapter 5 Project Description (REP1-022) Cable Statement (APP-020) Outline Scour Protection and Cable Protection Plan (REP1- 056) Outline Construction Method Statement (CMS) (Document Reference 9.49)
0000	*	*		Electromagnetic field (EMF)	Cables would be specified to reduce EMF and thermal emissions as per industry standards and best practice, such as the relevant International Electrotechnical Commission (IEC) specifications.		*			3	* *	*										DCO Schedule 6 Part 2 Condition 9(1)(d)(i) - Cable specification, installation and monitoring and 9(1)(d)(ii) - scour protection management and cable protection management		MMO MCA TH	Chapter 5 Project Description (REP1-022) Cable Statement (APP-020) Outline Scour Protection and Cable Protection Plan (REP1- 056) Outline CMS (Document Reference 9.49)



	Rele Proje		hase	Commitment title	Commitment detail	Rele	vant E	inviror	nmenta	l State	ement	t (ES)	topic										How is commitment secured / implemented			Decision maker /	Relevant Application
Dof	Pre-construction	Construction	Operation and maintenance Decommissioning			Site Selection and	Project Description	EIA Methodology	Marine Geology,Oceanography & Physical Processes Marine Sediment and Water	Quality	Bennic Ecology	Fish and Sheinish Ecology	Marine Mammals	Onsnore Omithology Commercial Eisbories	Commercial rishenes	onipping and navigation Marine Archaeology and	Cultural Heritage Civil and Military Aviation and	Radar Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation	Traffic and Transport		Embedded mitigation	Additional mitigation Monitoring Compensation	relevant authority	documents
7000		*		Cable burial	To minimise the extent of any unnecessary habitat disturbance, material displaced as a result of cable burial activities would be back-filled, where practicable, in order to promote recovery.				*	9													DCO Schedule 6 Part 2 Condition 9(1)(d)(i) - Cable specification, installation and monitoring	*		MMO MCA TH	Chapter 5 Project Description (REP1-022) Cable Statement (APP-020) Outline Scour Protection and Cable Protection Plan (REP1- 056) Outline CMS (Document Reference 9.49)
1000		*	*	Monitoring of cable exposure	During the lifetime of the Project, periodic geophysical surveys would be required to ensure the cables remain buried and if they obecome exposed, reburial works would be undertaken.	lo	*		*	9	k s	* *	*	×	k s	*		*					DCO Schedule 6 Part 2 Condition 9(1)(d)(i) - Cable specification, installation and monitoring DCO Schedule 6 Part 2 Condition 16 – Post- construction monitoring DCO Schedule 6 Part 2 Condition 14 - Pre- construction monitoring and survey			MMO TH MCA	Outline Offshore Operation and Maintenance Plan (REP2- 020) Outline CMS (Document Reference 9.49)
3000		*	*	Sediment disposal	Excavated sediments would be disposed within the order limits so there is no net loss of material from the physical processes system				*														DCO Schedule 1 – Authorised Developmen DCO Schedule 6, Part 1 Condition 2(c) – 2(e) (Details of licensed marine activities) DCO Schedule 6, Part 2 Condition 7(5) (Chemicals, debris and drilling)	*		ММО	Chapter 7 Marine Geology, Oceanography and Physical Processes ( REP3-012) Sediment Disposal Site Characterisation Report ( REP1- 008)
2000	*	*			how the Applicant would reduce the risk of underwater noise from piling from causing auditory injury to the marine mammals that could be present in and around the Project.	d ry						d	*										DCO Schedule 6, Part 2 Condition 9(1)(i) (MMMP)	*	*	ммо	Outline MMMP (REP2-018)
0000		*		Monitoring of piled foundations	In the event that driven or part-driven pile foundations are proposed, monitoring must include measurements of underwater sound generated by the installation of the first four piled foundation of each piled foundation type to be installed unless the MMO otherwise agrees in writing.	าร					,	* *	*										DCO Schedule 6, Part 2 Condition 15 (2) (construction monitoring		*	ммо	In-Principle Monitoring Plan (REP3-045)



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Ref		Constitution and Maintenance	Operation and Maintenance Decommissioning			Site Selection and	Project Description	EIA Methodology	Marine Geology,Oceanography & Physical Processes	Marine Sediment and Water Quality	Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage	Civil and Military Aviation and Radar	Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation Climate Change	Traffic and Transport		Embedded mitigation	Additional mitigation	Monitoring Compensation	authority	
6000	*	*		Underwater Sound Management Strategy (UWSMS)	The UWSMS will detail how the Applicant would reduce the risk of underwater noise from piling from causing auditory injury and disturbance to marine mammals and fish that could be present in and around the Project.							*	*											DCO Schedule 6, Part 2 Condition 20 (Underwater Sound Management Strategy)		*		ММО	Outline Underwater Sound Management Strategy ( REP2-026)
C010	*	* 1	* *	Air gap	The Project design has an air gap (minimum rotor clearance abovesea level) of 25m above Highest Astronomical Tide (HAT).	è	*							*		*								DCO Schedule 2 – Requirement 2 (Design Parameters)	*			ммо	Chapter 12 Offshore Ornithology (REP1-032) Chapter 14 Shipping and Navigation (REP3-020)
C011	*			Site selection	Site selection by the Applicant ensured the order limits are located outside of any site designated for nature conservation.	*					*	*	*	*	*		*							Incorporated into DCO order limits (see Offshore Statutory and Non-Statutory Nature Conservation Sites Plan (APP-010))	*			ММО	Chapter 4 Site Selection and Assessment of Alternatives (APP-041)
C012	*			Project design	The spatial extent of the windfarm site has been reduced eastward between the Preliminary Environmental Information Report (PEIR) and Environmental Statement (ES), such that the windfarm site no occupies 87km², compared to the 125km² (area awarded through the TCE leasing) assessed in the PEIR.		*							*		*			*	*				Incorporated into DCO order limits (see Offshore Location Plan (APP-005))	*			ММО	Chapter 5 Project Description (REP1-022)
C013	*	* 1	* *	Compliance with International, UK and Flag State Regulations including International Maritime Organisation (IMO) conventions	Compliance from all Project vessels with international maritime regulations as adopted by the relevant flag state (e.g. Internationa Convention for the Prevention of Collision at Sea (COLREGS) (IMO, 1972) and International Convention for the Safety of Life at Sea (SOLAS) (IMO, 1974).											*			*					DCO Schedule 6, Part 2 Condition 9(1)(j) (VTMP) / under statutory obligations	*			MMO MCA TH	Outline VTMP (REP3-047)
C014	*	* 1	* *	Aviation safety	Aviation stakeholders would be made aware of the Project via Notice to Airmen (NOTAM)s and obstacle details would be passed to the Civil Aviation Authority (CAA) at least eight weeks before construction commences. CAA would forward the information to Ministry of Defence (MOD), Defence Geographic Centre (DGC) ar National Air Traffic Service (NATS) Aeronautical Information Service (AIS) for inclusion in the Aeronautical Information Publication (AIP) and on relevant civil and military aeronautical charts.													*						DCO Schedule 2, Requirement 3 (Aviation safety)	*			CAA	Chapter 16 Civil and Military Aviation and Radar ( REP3- 024)
C015	*	*	* *	Archaeological Exclusion Zones (AEZs)	AEZs would be employed around known archaeological significan anomalies and Temporary Exclusion Zones (TEZs) would be employed around areas where an anomaly is not visible in the survey data, but it is likely to exist.												*							DCO Schedule 6, Part 2 Condition 9(1)(f) (WSI)	*			MMO Historic England	Outline Written Scheme of Investigation (APP-154)
C016	*	* 1	* *	Protocol for archaeological discoveries (PAD)	In order to account for unexpected discoveries of archaeological material during construction, operation and decommissioning, a PAD would be used. This would be produced in line with the relevant principles laid out in the Written Scheme of Investigation (WSI).												*							DCO Schedule 6, Part 2 Condition 9(1)(f) (WSI)		*		MMO Historic England	Outline Written Scheme of Investigation (APP-154)



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Ref		Operation and Maintenance	Decommissioning		Site Selection and	Assessment of Alternatives Project Description	EIA Methodology	Marine Geology,Oceanography & Physical Processes	Marine Sediment and Water	Quality Benthic Ecology	Estimic Ecology Fish and Shellfish Ecology		Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage	Civil and Military Aviation and Radar	Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation	Climate Change	Traffic and Transport		Embedded mitigation	Additional mitigation	Monitoring Compensation	authority	documents
C017	*		Piling foundation type	For piled foundation types, such as monopiles and jackets with pires piles, pile-driving would be used in preference to drilling, where it is practicable to do so (i.e. where ground conditions allow).	S			*	*																DCO Schedule 2 (para 2) - Design Parameters DCO Schedule 6, Part 2 Condition 9(1)(d)(iii) (foundation installation methodology)	*			ммо	Chapter 5 Project Description (REP1-022) Outline CMS (Document Reference 9.49)
C018	*	*	Use of scour protection	Scour protection is built into the design for each foundation type in consideration and where installed after the foundation, it would be installed as early as practicable (typically within the same season after the foundation installation).		*		*	*	*															DCO Schedule 1– Authorised Development DCO Schedule 6, Part 2 Condition 9(1)(d)(ii) (scour protection management and cable protection management)	*			ММО	Chapter 5 Project Description (REP1-022) Outline Scour Protection and Cable Protection Plan (REP1- 056)
C019	* *		Seabed preparation	Micro-siting (for foundations and cable installation) would be used where possible to minimise the requirements for seabed preparation prior to foundation and cable installation.				*	*	*							*								DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement. DCO Schedule 2 – Requirement 2 (Design Parameters) DCO Schedule 6, Part 2 Condition 9(1)(a) (Design Plan) and Condition 10(3)	*			ммо	Chapter 5 Project Description (REP1-022) Outline CMS (Document Reference 9.49)
C020	k		Pre-construction surveys	Pre-construction surveys would be implemented by the Applicant i order to identify any potential hazards within the windfarm site. These would include geophysical surveys to identify seabed hazards such as discarded fishing gear, wrecks or unidentified objects and magnetometer surveys to identify for the presence of UXO devices. Any identified UXO devices would be avoided through micrositing or require a subsequent UXO clearance campaign which would be subject to separate consent.  The pre-construction surveys also include the need to undertake a swath bathymetry survey to IHO Order 1a standard that meets the requirements of MGN654 and its annexes, and side scan sonar, of the area(s) within the Order limits in which it is proposed to carry out construction works.				*	*	*	*	,	*		*	*	*		*						DCO Schedule 6, Condition 9(1)(c) (monitoring plan) DCO Schedule 6, Part 2 Condition 14 (Pre- construction monitoring and surveys) DCO Schedule 6, Part 2 Condition 9(2) (Pre- commencement surveys)	*			ММО	IPMP ( REP3- 045)



	Rele Proj		hase	Commitment title	Commitment detail	Rele	evant E	nviro	nmental	State	ement	(ES)	topic									How is commitment secured / implemented		mitment	Decision maker / relevant	Relevant Application documents
)-u	Pre-construction	Construction	Operation and Maintenance Decommissioning			Site Selection and	Assessment of Aiternatives Project Description	EIA Methodology	Marine Geology,Oceanography & Physical Processes Marine Sediment and Water	Quality	Benthic Ecology Fish and Shellfish Ecology	ole mane Monite M	Marine Mammals Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage Civil and Military Aviation and	Radar	Infrastructure and Other Users SLVIA	Health sconomics,	Tourism and Recreation Climate Change	Traffic and Transport		Embedded mitigation	Additional mitigation Monitoring Compensation	authority	uocuments
7000	1700		*	Post-construction surveys	The post-construction surveys will include a full sea floor coverage swath-bathymetry survey that meets the requirements of MGN654 and its annexes, and side scan sonar, of the area(s) within the Order limits in which construction works were carried out. The purpose of the surveys are to assess any changes in bedform topography and such inform if further monitoring or assessment as may be agreed required to ensure that cables (including fibre optic cables) have been buried or protected.  During operation, other surveys that would be implemented by the Applicant are as follows:  Asset protection studies/surveys and need for any remedia measures  Drop down video surveys to ensure the safe placement of equipment during maintenance  Invasive Non-Native Species (INNS) monitoring in-line with asset inspection surveys	ıl	*				* *	,	*	*	*							DCO Schedule 6, Condition 9(1)(c) (monitoring plan) DCO Schedule 6, Condition 16 (post- construction monitoring)		*	ммо	IPMP (REP3- 045) Outline OOMP (REP2-020)
	* *	*		Minimise use of scoul and cable protection	Following industry best-practice the Applicant would seek to minimise the use of cable protection.						* *			*	*			*				DCO Schedule 6, Part 2 Condition 17 (Reporting of scour and cable protection) DCO Schedule 6 Part 2 Condition 9(1)(d)(i) and 9(1)(d)(ii) - Construction Method Statement, including: cable specification and installation plan and scour protection management and cable protection management	1 *		ммо	Outline Scour Protection and Cable Protection Plan (REP1- 056)
5000	0700	*		Underwater noise	A soft start and ramp up protocol for pile driving (if piled foundation are selected) may also allow mobile species to move away from th area before the maximum hammer energy with the greatest noise impact area is reached.						*	3	*									DCO Schedule 6, Part 2 Condition 9(1)(d) (offshore construction method statement) DCO Schedule 6 Part 2 Condition 9(1)(i) – Marine Mammal Mitigation Protocol (MMMP) (for piling procedures) DCO Schedule 6, Part 2 Condition 15 (construction monitoring DCO Schedule 6, Part 2 Condition 19 (Marine Noise Registry)	*		ММО	Outline CMS (Document Reference 9.49) Outline MMMP (REP2-018)



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Ref Pre-construction	Ē	Operation and Maintenance	Decommissioning		Site Selection and	Project Description	EIA Methodology	Marine Geology,Oceanography & Physical Processes	Marine Sediment and Water	Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage	Civil and Military Aviation and Radar	Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation Climate Change	Traffic and Transport		Embedded mitigation Additional mitigation	Monitoring Compensation	authority	
C024	*		Concurrent piling	No Project concurrent piling is to be undertaken (for foundations requiring piling (monopiles or jackets with pin-piles)).							*	*											DCO Schedule 6, Part 2 Condition 9(1)(d) (Construction Method Statement) Condition 9(1)(i) (MMMP)	*		ммо	Chapter 5 Project Description (REP1-022) Chapter 10 Fish and Shellfish Ecology (REP3- 016) Chapter 11 Marine Mammals (REP1-030) Outline CMS (Document Reference 9.49)
C0225	*	*	Vessel traffic monitoring	Continuous vessel monitoring during construction and immediate period post construction to MCA approval.										*	*			*					DCO Schedule 6, Part 2 Condition 15 (Construction monitoring) DCO Schedule 6, Part 2 Condition 16 (Post construction monitoring)	*		MCA TH UKHO	IPMP (REP3- 045)
C026	*	*	Guard vessels	Provision of a guard vessel in the vicinity of the windfarm site duri construction or major maintenance to monitor third party vessel traffic and intervene with warnings as necessary.	ng									*	*			*					DCO Schedule 6, Part 2 Condition 9(1)(j) (VTMP)			MCA TH UKHO	Outline VTMP (REP3-047) Outline FLCP ( REP3-043)
C027	*	*	* Maritime Navigation Engagement Forum	Maintain the MNEF in collaboration with the Morgan Offshore Wir Project: Generation Assets and Mona Offshore Wind Project to facilitate information sharing and management/identification of additional risk controls:  Identify near misses and investigate incidents, disseminating learnings.  Coordinate construction activities.	d									*	*			*					Commitment made in the CRNA and would be implemented via collaboration with the Mona and Morgan projects			N/A	Appendix 14.2 CRNRA (APP- 074)
C028			* Decommissioning programme	An Offshore Decommissioning Programme would be developed post-consent and implemented at the time of decommissioning.		*		*	*	*	*	*	*	*	*	*	*	*	*	*	* *		DCO Schedule 2 Requirement 10 (Decommissioning)	*		ммо	Chapter 5 Project Description (REP1-022)
C029	*	*	* Pollution prevention	The Applicant is committed to the use of best practice techniques and due diligence regarding the potential for pollution throughout construction, operation and maintenance, and decommissioning activities through the preparation of a Project Environmental Management Plan (PEMP) including Marine Pollution Contingence Plan (MPCP) and chemical risk assessment in line with international and national regulations and guidance.	all				*	*	*	*		*	*								DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement DCO Schedule 6, Part 2 Condition 9(1)(e) (PEMP including MPCP and chemical risk assessment) DCO Schedule 6 Part 2 Condition 7 (Chemicals, drilling and debris) DCO Schedule 2 Requirement 10 (Decommissioning)	*		ММО	Outline CMS (Document Reference 9.49) Outline PEMP ( REP3-041)



	Releva Projec		nase	Commitment title	Commitment detail	Rele	vant E	nviron	mental	Staten	nent (E	ES) to	pic									How is commitment secured / implemented		Decision maker /	Relevant Application
Ref	Pre-construction Construction	Operation and Maintenance	Decommissioning			Site Selection and Assessment of Alternatives	Project Description	EIA Methodology	Reine Sediment and Water	Quality Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage Civil and Military Aviation and	Radar Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation	Climate Change		Embedded mitigation Additional mitigation Monitoring	relevant authority	documents
C030	* *	*	*	Biosecurity measures	The Applicant would implement biosecurity measures in line with international and national regulations and guidance, namely:  International Convention for the Prevention of Pollution from Ships (MARPOL), which sets out requirements, including appropriate vessel maintenance  The Environmental Damage (Prevention and Remediation) (England) Regulations 2015, which set out a 'polluter pays' principle whereby operators who cause a risk of significant damage to water and biodiversity receptors are responsible for i) preventing damage from occurring; and ii) bearing the costs for full reinstation of the environment (to original condition) in the event of damage occurring  The International Convention for the Control and Management of Ships' Ballast Water and Sediments (BWM Convention), which provides an international framework for the control of transfer of potentially invasive species from ballast water				*		*	*										DCO Schedule 6 Part 2 Condition 9(1)(e) (PEMP, including MPCI and measures to minimise Invasive Non- Native Species (INNS)) DCO Schedule 6, Part 2 Condition 7 (Chemicals drilling and debris)	* 2,	ммо	Outline PEMP (REP3-041)
C031	* *	*	*	Safety zones	The following Safety Zones would be applied for by the Project following consultation:  500m safety zones around any structure where constructio or decommissioning work is underwater, as indicated by the presence of large construction vessel(s)  50m safety zones around any partially completed structure during the construction phase where work is not underway 500m safety zones around any structures undergoing major maintenance during the operational phase, defined as work requiring a large or Restricted in the Ability to Manoeuvre vessel	e r								*	*		*					DCO Schedule 6 Part 2 Condition 11 (Safety zones)	*	SoS	Safety Zone Statement (REP1-006)
C032	* *	*	*	Best practice to reduce vessel disturbance and collision risk	Vessel movements, where possible, will follow set vessel routes and hence areas where marine mammals and birds are e accustomed to vessels, in order to reduce any increased collision d risk and disturbance. All vessel movements will be kept to the minimum number that is required. Additionally, vessel operators w use good practice to reduce any risk of collisions with marine mammals and disturbance to rafting birds.	ill						*	*									DCO Schedule 6 Part 2 Condition 9(1)(d) (Construction Method Statement), DCO Schedule 6 Part 2 Condition 9(1)(e) (PEMP) DCO Schedule 6 Part 2 Condition 9(1)(i) (MMMP)	* *	MMO MCA TH	Outline PEMP (REP3-041) Outline MMMP (REP2-018) Outline CMS (Document Reference 9.49)
C033	* *	*	*	Aids to navigation management plan	An Aids To Navigation (AtoN) Management Plan (including markin and lighting) for the Project would be agreed with the MMO following consultation with MCA, UKHO and TH post-consent.	g								*	*							DCO Schedule 6, Part 2 Condition 5 AtoN)	2, *	MCA TH MMO	Chapter 14 Shipping and Navigation (REP3-020) Outline VTMP (REP3-047)
C034	* *	*	*	Fisheries liaison	The Applicant is committed to ongoing liaison with the fishing industry throughout all stages of the Project, based upon Fishing Liaison with Offshore Wind and Wet Renewables Group (FLOWW (2014, 2015) guidance.	)								*								DCO Schedule 6, Part 2 Condition 9(1)(k) (FLCF including Fisheries Liaison Officer (FLO))		MCA TH MMO	Outline Fisheries Liaison and Co- existence Plan (REP3-043)



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Ref	Pre-construction	Construction	Operation and Maintenance	Decommissioning		Site Selection and	Project Description	EIA Methodology	Marine Geology,Oceanography & Physical Processes	Marine Sediment and Water	Quality Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and	Cultural Heritage Civil and Military Aviation and	Radar Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation	Climate Change	Traffic and Transport		Embedded mitigation	Additional mitigation	Monitoring Compensation	authority	documents -
C035	*	*	*	Fisheries Liaison and Co-existence Plan (FLCP)	An FLCP, produced in accordance with the content of the Outline FLCP (APP-147), will set out the Applicant's strategy to facilitate coexistence between the Project and the commercial fishing industry. It provides an outline of the approach to fisheries liaison and preliminary mitigation measures throughout the lifetime of the Project. Fisheries monitoring is also secured in the IPMP.										*										DCO Schedule 6, Part 2 Condition 9(1)(k) (FLCP)	*	*		MCA TH MMO	Outline FLCP (REP3-043) IPMP (REP3- 045)
C036	*	*	*	* Lighting and marking	Lighting the Project in accordance with relevant industry guidance and as advised by relevant stakeholders, including the MCA, CAA and Trinity House (TH). The Applicant would also ensure the Project is adequately marked on nautical charts.										*	*		*	. *	*					DCO Requirement 3 (Aviation safety) DCO Schedule 6, Part 2 Condition 4 (Notifications and inspections) DCO Schedule 6, Part 2 Condition 5 (AtoN) DCO Schedule 6, Part 2 Condition 9 (Preconstruction plans and documents)	*			MCA TH CAA	Outline VTMP (REP3-047)
C037	*	*	*	* Colouring of structures	Except as otherwise required by TH, the undertaker must paint all structures forming part of the authorised project yellow (colour cod RAL 1023) from at least HAT to a height as directed by TH.  Unless the MMO otherwise directs, the undertaker must paint the remainder of the structures grey (colour code RAL 7035).	de									*	*		*	. *	*					DCO Schedule 6, Condition 6 (Colouring of Structures)	*			ТН	n/a
C038	*	*	*	Compliance with  * Marine Guidance Note (MGN) 654	Alignment of WTGs as required under MGN 654 (MCA, 2021) to provide obstruction free Search and Rescue (SAR) access, including two lines of orientation unless otherwise agreed.											*		*	. *						DCO Schedule 6. Part 2 Condition 9(1)(a) (Design Plan) DCO Schedule 6, Part 2 Condition 5 (Aids to navigation)	*			MCA TH UKHO	Outline VTMP (REP3-047) Appendix 14.1 Navigation Risk Assessment ( REP3-028) Appendix 14.2 Cumulative Regional Navigation Risk Assessment ( REP3-028)
C039	*	*	*	* Promulgation of information	Advance warning and accurate location details of construction, maintenance and decommissioning operations, associated safety zones and advisory passing distances would be given via Notice t Mariners (NtMs) and Kingfisher Bulletins and other appropriate media, including charting. Construction, operation and maintenance, and decommissioning activity would be communicated using NtM and via ongoing engagement, as appropriate.											*		*	. *						DCO Schedule 2 Requirement 3 (Aviation Safety) DCO Schedule 6, Part 2 Condition 5 (Aids to navigation) DCO Schedule 6, Part 2 Condition 4 (Notifications and inspections)	*			MCA TH UKHO	Outline VTMP (REP3-047) Appendix 14.1 Navigation Risk Assessment (REP3-028) Appendix 14.2 Cumulative Regional Navigation Risk Assessment (APP-074)
C040	*	*	*	* Surveillance radar	Technical mitigation solutions applied to impacted radars to be agreed as required with operators (NATS (En Route) plc (NERL) (Great Dun Fell, Lowther Hill and St Annes Primary Surveillance Radar (PSRs)).													*							DCO Schedule 2, Requirement 4 (Great Dun Fell, Lowther Hill and St Annes Primary Surveillance Radars)		*		Secretary of State (SoS) NATS	Chapter 16 Civil



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Ref	Pre-construction	Construction	Operation and Maintenance	Decommissioning		Site Selection and	Project Description	EIA Methodology	Marine Geology, Oceanography & Physical Processes	Marine Sediment and Water Quality	Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage	Civil and Military Aviation and Radar	Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation Climate Chande	Traffic and Transport		Embedded mitigation	Additional mitigation	Monitoring Compensation	authority	
C041	*	*	*	* Flight procedures	Consultation and revisions to Instrument Flight Procedures (IFPs) as required (Blackpool Airport, Walney Aerodrome, Royal Air Forc (RAF) Valley and Warton Aerodrome). Consultation has commenced and would continue to reach agreement on the best detailed solution to mitigate the impact created by the final design of the Project.													*						DCO Schedule 2, Requirement 5 (Blackpool Airport IFPs DCO Schedule 2, Requirement 6 (Walney Aerodrome IFPs) DCO Schedule 2, Requirement 7 (Wartor Aerodrome IFPs)	y	*		successor as holder of a licence under	Aviation and Radar (REP3- 024)
C042	*	*	*	* Marine coordination for project vessels	An ERCoP would be agreed and implemented for all phases of the Project. The SAR requirements would be agreed with the MMO in consultation with the MCA post-consent in line with regulatory requirements.	e										*			*					DCO Schedule 6, Part Condition 12 (Offshore safety management)				MCA TH UKHO	Outline VTMP (REP3-047)
C043	*	*	*	* Traffic and transport	The Applicant has committed to developing a Port Access and Transport Plan (PATP), if agreed to be required, post-consent in line with the Outline PATP (submitted with the DCO submission application) in the event that the chosen port(s) does not have sufficient extant permissions to supply the Project.																		*	DCO Schedule 2, Requirement 11 (PATF	°) *			authority or authorities in whose area the relevant	Outline PATP (APP-151)
C044	*	*	*	* Skills and employment	The Applicant has developed an Outline Skills and Employment Plan (with the final plan secured in the DCO) to explore where benefits can be maximised through its procurement process.																*	*		DCO Schedule 2 Requirement 12 (Skills and Employment Plan)				and	Outline Skills and Employment Plan (APP-155)
C045	*	*	*	* Climate change resilience measures	Modern windfarm design consistent with best practice engineering codes and standards will be adopted, which will require resilience extreme weather events at sea and longer term changes to the climate baseline.	to																*		DCO Schedule 6, Part Condition 9(1)(d) (offshore construction method statement) DCO Schedule 6, Part Condition 9(1)(e) (PEMP)	*			ммо	Outline PEMP (REP3-041) Chapter 21 Climate Change (APP-058) Outline CMS (Document Reference 9.49)
C044	*	*	*	Overarching * Greenhouse Gas (GHG) measures	Project-level GHG mitigation is being incorporated into the design development process for the Project wherever it is practicable to d so.	О																*		DCO Schedule 1 – Authorised Developme DCO Schedule 6, Part Condition 9(1)(d) (offshore construction method statement)				N/A	Chapter 21 Climate Change (APP-058) Design Statement (APP-021) Outline CMS (Document Reference 9.49)



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Ref	Pre-construction Construction	Operation and Maintenance	Decommissioning			Site Selection and Assessment of Alternatives		EIA Methodology	Marine Geology,Oceanography & Physical Processes	Marine Sediment and Water Quality	Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Civil and Military Aviation and Radar	Infrastructure and Other Users	SLVIA Human Health	ics,	Tourism and Recreation Climate Change	Traffic and Transport		Embedded mitigation Additional mitigation	Monitoring Compensation	authority	uocuments
C045			*	Climate change resilience measures	Prior to the commencement of decommissioning activities, as part of health and safety protocols, a review of recent climate hazards and up-to date climate projection data would be undertaken to develop suitable mitigation and management measures, which would be secured in management plans for this stage of works.																*		DCO Schedule 1 – Authorised Developmen DCO Schedule 2, Requirement 10 (Decommissioning)	t *		SoS	Chapter 21 Climate Change (APP-058)
C046	* *	*		WTG spacing	A minimum separation distance of 1,060m has been defined between adjacent WTGs within the same row and 1,410m between each row (inter-row spacing, which is the distance between the main rows)	1	*		*		*												DCO Schedule 2 (para 2) - Design Parameters DCO Schedule 6 Part 2 Condition 1 - Design Parameters DCO Schedule 6 Part 2 Condition 9(1)(a) - Design Plan	*		MMO MCA TH	Chapter 5 Project Description (REP1-022)
C047	* *	*	*	Foundation choice	The selection of appropriate foundation designs and sizes at each WTG and OSP location would be made following preconstruction surveys within the windfarm site.		*		*		*												Schedule 1 Part 1 Authorised Project DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement.	*		MMO MCA TH	Outline CMS (Document Reference 9.49)
C048	*			Construction hours	During construction, overnight working practices would be employed offshore so that construction activities could continue 24/7, thereby reducing the overall programme for offshore works and the period in which potential construction related impacts may occur.		*				*	*	*	*	*								DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement	*		MMO MCA TH	Outline CMS (Document Reference 9.49)
C049	*		*	Construction Method Statement	Preparation of Construction Method Statements (CMS), post- consent and pre-construction, setting out detailed WTG/OSP foundation and cable installation methods and techniques (based on final Project design).					*													DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement	*		MMO MCA TH	Outline CMS (Document Reference 9.49)
C050	*			Foundation installation method	Application of foundation installation techniques using methods an equipment most suitable for seabed conditions and where possible to minimise sediment suspension.				*	*	*	*	*		*								DCO Schedule 1 Part 1 Authorised Project DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement	*		MMO MCA TH	Outline CMS (Document Reference 9.49)
C051	*			Cable installation method	Selection of cable installation methods and equipment most suitable for seabed conditions and where possible to minimise sediment suspension.				*	*	*												DCO Schedule 1 Part 1 Authorised Project DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement.	*		MMO MCA TH	Outline CMS (Document Reference 9.49)



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Ref		Operation and Maintenance	Decommissioning			Site Selection and Assessment of Alternatives	Project Description	EIA Methodology	Marine Geology, Oceanography & Physical Processes	Marine Sediment and Water Quality	Benthic Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Marine Archaeology and Cultural Heritage	Civil and Military Aviation and Radar	Infrastructure and Other Users	SLVIA	Human Health	Socio-economics, Tourism and Recreation Climate Change	Traffic and Transport		Embedded mitigation	Additional mitigation Monitorina	ijon	uthority	
C052	٠	* *	Scour protect	evaluated and further considered	suitability and environmental atives, if available at the time, will		*			*														DCO Schedule 1 Part 1 Authorised Project DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement.	*		M	IMO ICA 'H	Outline CMS (Document Reference 9.49)
C053	·	*	Micro-siting	Micro-siting would be undertaken conservation, ecological or econo habitats of principal importance a Natural Environmental and Rural	omic importance constituting reef as listed under Section 41 of the						*													DCO Schedule 6, Part 2 Condition 9(1)(a)(v)	, *		M	IMO ICA 'H	Outline CMS (Document Reference 9.49)
C054	k		* Scour protect installation	on Consideration will be given to sco be more readily removable at the	our and cable protection that would time of decommissioning.	1	*		*	*	*	*	*	*	*	*	*		*	*				Schedule 1 Part 1 Authorised Project DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement.	*		M	IMO ICA 'H	Outline CMS (Document Reference 9.49)
C055		*	Underwater n			1						*	*		*									DCO Schedule 6, Part 2 Condition 20 (Underwater Sound Management Strategy)	*		N	1MO	Outline Underwater Sound Management Strategy (REP2- 026)
C056	k	* *	Cable burial	offshore electrical circuits, and a	clude the technical specification o desk-based assessment of eld strengths, shielding and cable		*			*	*	*	*	*	*	*	*		*					DCO Schedule 6 Part 2 Condition 9(1)(d) - Construction Method Statement including: cable specification and installation plan and scour protection management and cable protection management DCO Schedule 6 Part 2 Condition 16 - Post construction monitoring DCO Schedule 6 Part 2 Condition 17 - Reporting of scour and cable protection	*		M	IMO ICA H	Chapter 5 Project Description (REP1-022) Cable Statement (APP-020) Outline Scour Protection and Cable Protection Plan (REP1- 056) Outline CMS (Document Reference 9.49)