

MORGAN OFFSHORE WIND PROJECT: GENERATION ASSETS

Commitments Register (previously titled Mitigation and monitoring schedule)

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Image of an offshore wind farm

MORGAN OFFSHORE WIND PROJECT: GENERATION ASSETS

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Glossary

Term	Meaning
Project terminology	
Applicant	Morgan Offshore Wind Limited.
Inter-array cables	Cables which connect the wind turbines to each other and to the offshore substation platforms. Inter-array cables will carry the electrical current produced by the wind turbines to the offshore substation platforms.
Interconnector cables	Cables that may be required to interconnect the Offshore Substation Platforms in order to provide redundancy in the case of cable failure elsewhere.
Morgan Array Area	The area within which the wind turbines, foundations, inter-array cables, interconnector cables, offshore export cables and offshore substation platforms (OSPs) forming part of the Morgan Offshore Wind Project will be located.
Morgan Offshore Wind Project: Generation Assets	This is the name given to the Morgan Generation Assets project as a whole (includes all infrastructure and activities associated with the project construction, operations and maintenance, and decommissioning).
Offshore Substation Platform (OSP)	The offshore substation platforms located within the Morgan Array Area will transform the electricity generated by the wind turbines to a higher voltage allowing the power to be efficiently transmitted to shore.
Outline/In-principle Plans	
Draft Marine Mammal Mitigation Protocol	The protocol setting out the appropriate measures adopted as part of the Morgan Generation Assets relevant to offshore activities that are likely to produce underwater sound levels capable of potentially causing injury or disturbance to marine mammals.
Marine Pollution Contingency Plan	A plan which outlines the risks, methods and procedures for dealing with any pollution incidents of the authorised project in relation to all activities carried out
Morgan Array Site Characterisation Report	A report representing the site characterisation for the marine disposal site for dredged material and drill arisings for the Morgan Array Area to support a disposal application within the Marine Licence(s).
Outline Employment and Skills Plan	A plan identifying opportunities for the employment and skills development of local people in relation to the Morgan Generation Assets.
Outline Environmental Management Plan	A plan outlining the proposed measures adopted as part of the Morgan Generation Assets to eliminate, offset or reduce adverse offshore environmental effects.

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Term	Meaning
Outline Fisheries Liaison and Co-existence Plan	A plan outlining the approach to fisheries liaison during the construction, operations and maintenance, and decommissioning phases and setting out the strategy to facilitate co-existence between the Morgan Generation Assets and commercial fishing interests.
Offshore In principle Monitoring Plan	A plan providing the framework detailing the proposed offshore monitoring commitments of the Morgan Generation Assets.
Outline Offshore Written Scheme of Investigation	The Written Scheme of Investigation (WSI) setting out the proposed approaches and commitments to archaeological survey and investigation to be undertaken post-consent offshore.
Relationship of Plans included within the DCO	An outline of how the Morgan Generation Assets offshore plans are related to each other and how they are secured within the Development Consent Order (DCO).
Vessel Traffic Management Plan	A plan setting out the numbers, types and specifications of project related vessels and how vessel management will be coordinated.

Other terminology

Environmental Statement	The document presenting the results of the Environmental Impact Assessment (EIA) process for the Morgan Generation Assets.
Development Consent Order (DCO)	An order made under the Planning Act 2008 granting development consent for one or more Nationally Significant Infrastructure Project (NSIP).
KIS-ORCA Service	The Kingfisher Information Service - Offshore Renewable & Cable Awareness project (KIS-ORCA) is a joint initiative between European Subsea Cables Association and RenewableUK and is being managed by the Kingfisher Information Service of Seafish.
Marine licence	The Marine and Coastal Access Act 2009 requires a marine licence to be obtained for licensable marine activities. Section 149A of the Planning Act 2008 allows an applicant for a DCO to apply for 'deemed marine licences' as part of the DCO process.
Underwater sound	Sound waves made underwater.
Wind turbines	The wind turbine generators, including the tower, nacelle and rotor.

Acronyms

Acronym	Description
ADD	Acoustic deterrent devices
ANMP	Aids to Navigation Management Plan
AtNs	Aids to Navigation
CBRA	Cable Burial Risk Assessment
CMS	Construction Method Statement
CFLO	Company Fisheries Liaison Officer
CSIP	Cable Specification and Installation Plan
DCO	Development Consent Order
dML	Deemed Marine Licence
EIA	Environmental Impact Assessment

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Acronym	Description
EMP	Environmental Management Plan
ErCOP	Emergency response cooperation plan
FLCP	Fisheries Liaison and Coexistence Plan
INNS	Invasive Non-Native Species
JNCC	Joint Nature Conservation Committee
LAT	Lowest Astronomical Tide
MCA	Maritime Coastguard Agency
MMO	Marine Management Organisation
MMOs	Marine Mammal Observers
MMMP	Marine mammal mitigation protocol
MPCP	Marine Pollution Contingency Plan
NtMs	Notice to Mariners
OEMP	Offshore Environmental Management Plan
OFLOs	Offshore Fisheries Liaison Officers
OSP	Offshore Substation Platform
PAM	Passive acoustic monitoring
SMZ	Scallop Mitigation Zone
UKHO	UK Hydrographic Office
UWSMS	Underwater Sound Management Strategy
UXO	Unexploded Ordinance
VMS	Vessel Monitoring System
VTMP	Vessel Traffic Management Plan

1 Commitments Register

1.1 Introduction

1.1.1.1 This document was previously titled ‘Mitigation and monitoring schedule’ but was updated to ‘Commitments Register’ at Deadline 4 (10 December 2024) in response to the Examining Authority’s First Written Questions. A further update has been made at Deadline 5 (16 January 2025) to account for amendments to commitment wording.

1.1.1.2 This document presents the mitigation and monitoring commitments proposed in the Morgan Offshore Wind Project: Generation Assets (hereafter Morgan Generation Assets). The purpose of this document is to demonstrate how the Morgan Generation Assets has committed to a number of measures that demonstrate good EIA practice and design objectives and confirm how these commitments will be secured and implemented. This is to ensure that potential environmental effects arising from the project are mitigated as far as possible and in accordance with the mitigation hierarchy, and where necessary monitored. Where some measures are aligned to industry best practice, this is noted within the means of securing the commitment. The commitments register has been developed in accordance with the PINS guidance on Commitments Register, and lists all the mitigation and monitoring commitments proposed alongside the following supporting information:

- Commitment Reference
- Description of Commitment
- Monitoring
- Project Phase
- Relevant aspect / matter
- Commitment Securing Mechanism
- Stage of Delivery
- Associated Supporting Information
- Compliance Date and Details

1.1.1.3 Where commitments have not been identified for a specific topic, this topic is not listed within the aspect/topic column in Table 1.1. Those topics with no commitments include:

- Human health (Volume 2, Chapter 14)
- Inter-related effects (Volume 2, Chapter 15).

1.2 Commitments register

1.2.1.1 Table 1.1 details the commitments made by the Morgan Generation Assets, the EIA topics they relate to and how each commitment will be secured and implemented. The table follows the structure of the template within the Planning Inspectorate guidance on the purpose and use of a commitments register published in September 2024. The format for presenting the commitments has changed from the initial Mitigation and Monitoring Schedule (APP-076 superseded by REP2-015 and REP2-016) submitted with the Morgan Generation Assets application. To make the changes easy to follow the Applicant has provided the previous commitment reference number from the Mitigation and Monitoring Schedule in brackets after the updated commitment reference number (e.g. MMS 1.1) (where applicable).

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- 1.2.1.2 Commitments are ordered with site selection and primary design measures listed first, followed by order and grouping in relation to EIA topic as well as alignment across relevant plans/subplans. Monitoring commitments are included by commitment number at the end of the table. Monitoring commitments are also shown in the monitoring column where the monitoring is undertaken to support or inform the project commitment.
- 1.2.1.3 Primary commitment measures relating to the siting and design of the Morgan Generation Assets have been refined through stakeholder consultation during the pre-application phase. The proposed refinements to the Morgan Potential Array Area and layout principles are presented in Volume 1, Chapter 4: Site selection and consideration of alternatives (APP-011) including an explanation of how the changes could help to minimise any potential impacts to key receptor groups.

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Table 1.1: Morgan Generation Assets commitments register.

Commitment Reference number	Type	Description of commitment	Monitoring	Project Phase	Relevant Aspect/Topic												Commitment securing mechanism	Delivery	Associated supporting documentation	Compliance date and details	
					Physical processes	Benthic ecology	Fish and shellfish ecology	Marine mammals	Offshore ornithology	Commercial fisheries	Shipping and navigation	Marine archaeology and	Other sea users	Seascape landscape and	Aviation and radar	Climate change					Socio-economics
Co1	Primary	<p>The Morgan Array Area is located to avoid all hard constraints including:</p> <ul style="list-style-type: none">• IMO traffic separation schemes and deep-water channels (UKHO)• Offshore Wind Agreement for Lease / Lease area / Zone Development Agreement (ZDA) / Preferred Bidder Letter (TCE)• Aggregates Production Agreement / Exploration and Option Agreement / Preferred Bidder Letter (TCE)• Capital and navigation dredging licensed areas (TCE)• Coastal outfalls lease area (TCE) Natural gas storage agreement for lease / lease area (TCE).		Construction & Operation							x		x					Secured under condition 10(2), Design Parameters, of the draft DCO (document reference C1).	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 1, Chapter 4: Site selection and consideration of alternatives of the Environmental Statement.	
Co2	Primary	<p>The Morgan Array Area is located at least 7.5 km away from existing offshore wind farms.</p>		Construction & Operation						x	x		x		x	x		Secured under condition 10(2), Design Parameters, of the draft DCO (document reference C1).	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 1, Chapter 4: Site selection and consideration of alternatives of the Environmental Statement.	
Co3	Primary	<p>The Morgan Array Area is located more than 5 km away from the Mona Offshore Wind Project and Morecambe Generation Assets.</p>		Construction & Operation						x	x		x		x			Secured under condition 10(2), Design Parameters, of the draft DCO (document reference C1).	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 1, Chapter 4: Site selection and consideration of alternatives of the Environmental Statement.	
Co4	Primary	<p>The Morgan Array Area is located 10 km away from the Liverpool Bay SPA. This</p>		Construction & Operation	x	x	x		x									Secured under condition 10(2), Design Parameters, of	Discharge of the design parameter conditions within	Volume 1, Chapter 4: Site selection and consideration of	

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		distance aligns with feedback from SNCBs within the Offshore Wind Leasing Round 4 Bidding Area Report (v2.0) (TCE, 2019b).																the draft DCO (document reference C1).	the DCO pre-construction.	alternatives of the Environmental Statement.	
Co5	Primary	A refined Morgan Array Area boundary which reduces the Morgan Potential Array Area from 322 km ² (as described within the PEIR) to the final Morgan Array Area of 280 km ² for the DCO Application.		Construction & Operation	x	x	x	x	x	x	x	x	x	x			x	Secured under condition 10(2), Design Parameters, of the draft DCO (document reference C1).	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 1, Chapter 4: Site selection and consideration of alternatives of the Environmental Statement.	
Co6	Primary	Reduction in the maximum number of wind turbines from 107 at PEIR to 96 turbines for the DCO Application.		Construction & Operation	x	x	x	x	x	x		x	x	x	x	x		Secured under condition 10(2), Design Parameters, of the draft DCO (document reference C1).	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 2, Chapter 1: Project Description of the Environmental Statement.	
Co7	Primary	Removal of monopiles from the project design envelope for the DCO Application.		Construction			x	x										Secured under condition 10(2), Design Parameters, of the draft DCO (document reference C1).	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 2, Chapter 1: Project Description of the Environmental Statement.	
Co8 (MMS: 5.1)	Primary	The Applicant has committed to a minimum lower blade tip height (air draught) of 34 m above LAT an increase from the recommended minimum safe clearance of 22 m above MHWS (≈ 30 m above LAT) set out within MGN654.		Operation					x		x		x					Secured under condition 10(2), Design Parameters, of the draft DCO (document reference C1).	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 2, Chapter 5: Offshore ornithology of the Environmental Statement.	
Co9 (MMS: 6.4, 7.1)	Primary	Minimum spacing between wind turbines of 1,400 m within and between rows of turbines, an increase from 1000 m (between rows) and 875 m (within rows) at PEIR. This minimum spacing is to be measured from plan centre points of structures subject to the micro-siting principles and		Construction & Operation	x	x	x	x	x	x	x		x					Secured under condition 10(2), Design Parameters, of the draft DCO (document reference C1).	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 2, Chapter 1: Project Description of the Environmental Statement. Volume 2, Chapter 6: Commercial fisheries of the	

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		installation tolerance dimension to be agreed with the MMO and the MCA. Note that micro-siting of structures shall be 50 m with 5 m for tolerance.																		Environmental Statement. Outline Fisheries Liaison and Coexistence Plan (J10).	
Co10 (addition to CR not in MMS)	Primary	Maximum diameter of 49 m gravity base at the seabed for wind turbine generators on gravity base foundations (decreased from 56 m in PEIR).		Construction & Operation	x	x	x				x	x						Secured under condition 10(2), Design Parameters, of the draft DCO (document reference C1).	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 2, Chapter 1: Project Description of the Environmental Statement.	
Co11 (addition to CR not in MMS)	Primary	Reduction in the maximum width of sandwave clearance impact width for interconnector cables (reduced from 104m at DCO Application to 80m in Examination).		Construction	x	x	x			x	x	x						Secured under condition 10(2), Design Parameters, of the draft DCO (document reference C1).	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 2, Chapter 1: Project Description of the Environmental Statement.	
Co12 (addition to CR not in MMS)	Primary	A reduction in the maximum disposal volume to up to 15,694,606 cubic metres of inert material of natural origin within the Order limits produced during construction drilling or seabed preparation for foundation works, cable works and boulder clearance works (reduced from the 18,236,920 volume at DCO Application).		Construction	x	x	x				x	x						Secured under condition 2(g) of the draft DCO.	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 2, Chapter 1: Project Description of the Environmental Statement.	
Co13 (MMS: 7.1, 11.1)	Primary	WTG layout will adopt two lines of orientation throughout the Morgan Array Area		Operation						x	x		x					Secured under condition 10(2), Design Parameters, of the draft DCO (document reference C1).	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 2, Chapter 1: Project Description of the Environmental Statement.	
Co14 (addition to CR not in MMS)	Primary	Search and Rescue (SAR) access lanes shall be allowed for and shall be a minimum of 500 m wide, measured from the perimeter of any offshore surface structure. In the case		Operation						x	x		x					The minimum separation of 1,400m (Principle 2) will provide for sufficient room for SAR Access lanes. Development	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 2, Chapter 1: Project Description of the Environmental Statement.	

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		of wind turbines, SAR lanes will be measured from the blade tips that are transverse to the wind turbine. SAR lanes will cross the Morgan Array Area on the same bearing until the edge of the Morgan Array Area or until a Helicopter Refuge Area is reached in accordance with the recommendations for layouts in Marine Guidance Note (MGN) 654.																post-consent of a wind turbine layout in accordance with the recommendations for layout contained in MGN654 and its annexes is secured under condition 20(1)(ii) of the Draft DCO.		Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement.	
Co15 (addition to CR not in MMS)	Primary	For all offshore surface structures, the micro-siting allowance will be 50 m, centred on the nominal offshore surface structure position and can be additive to the installation tolerance allowance of 5 m. Therefore, in total the allowance for micro-siting will be 55 m. This has been reduced from a total allowance of 125m during the Examination phase.		Construction & Operation	x	x	x			x	x	x	x					Secured under condition 20(1)(ii) of the draft DCO.	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 2, Chapter 1: Project Description of the Environmental Statement.	
Co16 (addition to CR not in MMS)	Primary	Where SAR access lanes are more than approximately 10 nm, a Helicopter Refuge Area perpendicular to the SAR Access Lanes will be included within the layout design as recommended in MGN654. The Helicopter Refuge Area shall be at least 1 nm (tip to tip) in width and allow access across the Morgan Array Area as recommended in MGN654.		Operation						x	x		x					Secured under condition 20(1)(ii) of the draft DCO.	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 2, Chapter 1: Project Description of the Environmental Statement.	
Co17 (MMS: 6.5)	Primary	Wind turbine rows will be oriented in a roughly north to south direction.		Operation						x			x					Secured under condition 10(2), Design Parameters, of the draft DCO (document reference	Discharge of the design parameter conditions within the DCO pre-construction.	Volume 2, Chapter 1: Project Description of the Environmental Statement.	

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																		C1) within the Draft DCO (Document Reference C1).		Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline Fisheries Liaison and Coexistence Plan (J10).	
Co18 (MMS: 11.1)	Primary	Development of, and adherence to, a Design Plan which will be prepared in accordance with the layout principles and agreed with the MMO, in consultation with the MCA, the UKHO and Trinity House as appropriate.		Construction & Operation	x	x	x	x	x	x	x	x	x	x	x	x	x	The commitment is secured through the Design Plan condition 20(a) of the deemed marine licenses within the Draft DCO (Document Reference C1).	The design plan will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO in consultation with Trinity House and the MCA setting out proposed details of the authorised scheme.	Volume 2, Chapter 1: Project description of the Environmental Statement.	
Co19 (MMS: 6.6)	Primary	Development of and adherence to a Design Plan which includes implementation of a Scallop Mitigation Zone (SMZ) over an area of core scallop grounds within the Morgan Array Area, which will either be 34 km ² or 37 km ² depending on whether peripheral turbines are required as part of final scheme design.	Development and implementation of a monitoring programme which includes pre- and post- construction monitoring of scallop (see Co91).	Construction & Operation			x			x								The commitment is secured through the Design Plan condition 20(a) of the deemed marine licenses within the Draft DCO (Document Reference C1). The commitment is also secured through the Outline Fisheries Liaison Co-existence Plan (FLCP) (Document Reference J10).	The design plan will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO in consultation with Trinity House and the MCA setting out proposed details of the	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement Outline FLCP (document reference J10).	

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																		An FLCP as part of the offshore EMP is secured within condition 20(e)(v) of the deemed marine licences of the draft DCO (document reference C1).	authorised scheme.		
Co20 (New commitment not within MMS)	Primary	The Applicant will seek to minimise cable routing through the SMZ where possible.	Development and implementation of a monitoring programme which includes pre- and post- construction monitoring of scallop (see Co91).	Construction & Operation			x			x								Final cable routing will be secured through the Design Plan condition 20(a) of the deemed marine licenses within the Draft DCO (Document Reference C1).	The design plan will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO in consultation with Trinity House and the MCA setting out proposed details of the authorised scheme.	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline FLCP (document reference J10).	
Co21 (MMS: 2.8)	Tertiary	Development of and adherence to a Design Plan (DP) which includes micro-siting requirements relating to identification of reef habitats of principal importance as listed under Section 41 of the NERC Act during pre-construction surveys. If any such features are recorded this will be considered an adaptive measure as detailed within the within the Offshore In Principle Monitoring Plan (S_D5_21).		Construction	x													The commitment is secured through the Design Plan condition 20(a) of the deemed marine licenses within the Draft DCO (Document Reference C1).	The design plan will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO in consultation with Trinity House and the MCA setting out proposed details of the	Volume 2, Chapter 2: Benthic, subtidal ecology of the Environmental Statement.	

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																			authorised scheme.		
Co22 (MMS: 1.1, 2.2)	Primary	Development of, and adherence to, an Offshore Construction method statement (CMS). The CMS will include details of scour protection management, to be used around offshore structures and foundations to reduce scour as much as is practical. Consideration will be given for the use of scour protection which is of such a nature that it may be more readily removable at decommissioning.		Construction Operation Decommissioning	x	x	x			x	x							The Offshore CMS is secured within condition 20(1)(d) of deemed marine licences of the draft DCO (document reference C1).	The offshore CMS will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, MCA, UKHO, and other relevant statutory consultees as appropriate.	Volume 2, Chapter 1: Physical processes of the Environmental Statement. Volume 2, Chapter 2: Benthic, subtidal ecology of the Environmental Statement.	
Co23 (MMS: 7.15)	Tertiary	The offshore CMS will include the development of, and adherence to, a Construction Programme (CP).		Construction	x	x	x	x	x	x	x	x	x	x	x	x	x	An Offshore CMS secured within condition 20(1)(d) of the deemed marine licences of the draft DCO (document reference C1).	The offshore CMS will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, UKHO and other relevant statutory consultees as appropriate.	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement.	
Co24 (MMS: 1.5, 2.5)	Primary	The offshore CMS will include a Cable Specification and	The CMS includes details of periodic validation surveys of cable burial and	Construction	x	x	x											A CSIP as part of the Offshore CMS	The offshore CMS will be	Volume 2, Chapter 1: Physical	

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		Installation Plan (CSIP) which will further minimise sandwave clearance volumes as far as possible.	protection to ensure specified requirements are met (see Co97).															secured within condition 20(1)(d)(i) of the deemed marine licences of the draft DCO (document reference C1).	prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, UKHO and other relevant statutory consultees as appropriate.	processes of the Environmental Statement. Volume 2, Chapter 2: Benthic, subtidal ecology of the Environmental Statement.	
Co25 (MMS: 1.2, 2.1, 3.6)	Primary	The CSIP will include measures for cable burial where possible and cable protection. Consideration will be given for the use of cable protection which is of such a nature that it may be more readily removable at decommissioning.	Pre-construction and post-construction monitoring will be put in place to monitor changes to, and recovery of, sandwaves following the installation of inter array / interconnector cables (see Co88).	Construction Operation Decommissioning	x	x	x			x	x		x					A CSIP as part of the Offshore CMS secured within condition 20(1)(d)(i) of the deemed marine licences of the draft DCO (document reference C1). Monitoring is secured under condition 20(1)(c) in the dMLs within the DCO (document reference C1).	The offshore CMS will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, UKHO and other relevant statutory consultees as appropriate. A monitoring plan (which accords with the offshore in principle monitoring plan) to include details of proposed surveys and be	Volume 2, Chapter 1: Physical processes of the Environmental Statement. Volume 2, Chapter 2: Benthic, subtidal ecology of the Environmental Statement.	

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																			submitted to the MMO at least four months prior to survey commencement.		
Co26 (MMS: 6.2)	Primary	The CSIP will include measures to minimise the use of cable protection as far as reasonably practicable.	The CMS includes details of periodic validation surveys of cable burial and protection to ensure specified requirements are met (see Co97).	Construction & Operation						x	x		x					The commitment is secured through the Outline FLCP (Document Reference J10). A CSIP as part of the Offshore CMS secured within condition 20(1)(d)(i) of the deemed marine licences of the draft DCO (document reference C1). An FLCP as part of the offshore EMP is secured within condition 20(e)(v) of the deemed marine licences of the draft DCO (document reference C1).	The offshore CMS will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA and UKHO as appropriate.	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline Fisheries Liaison and Coexistence Plan (J10).	
Co27 (MMS: 6.1)	Primary	The CSIP will incorporate the Cable Burial Risk Assessment (CBRA) where cable protection shall be designed to minimise snagging hazards as far as possible. For example, by minimising height above seabed, smooth and shallower profiles, grade used for rock placement, type of rock (e.g. smoother edges) and target cable burial depth will be determined to minimise the risk of snagging hazards and cable exposure as far as possible.	The CMS includes details of periodic validation surveys of cable burial and protection to ensure specified requirements are met (see Co97).	Construction & Operation						x	x		x					A CSIP as part of the Offshore CMS secured within condition 20(1)(d)(i) of the deemed marine licences of the draft DCO (document reference C1).	The offshore CMS will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline Fisheries Liaison and Coexistence Plan (J10).	

MORGAN OFFSHORE WIND PROJECT: GENERATION ASSETS

Commitment Reference number	Type	Description of commitment	Monitoring	Project Phase	Relevant Aspect/Topic													Commitment securing mechanism	Delivery	Associated supporting documentation	Compliance date and details
					Physical processes	Benthic ecology	Fish and shellfish ecology	Marine mammals	Offshore ornithology	Commercial fisheries	Shipping and navigation	Marine archaeology and	Other sea users	Seascape landscape and	Aviation and radar	Climate change	Socio-economics				
																			consultees as appropriate.		
Co28 (MMS: 6.15)	Tertiary	The CSIP will detail cable protection management and scour protection management, to outline cable burial depth, which includes consideration of seabed level change, cable protection and monitoring of inter array and interconnector cables.	The CMS includes details of periodic validation surveys of cable burial and protection to ensure specified requirements are met (see Co97).	Construction & Operation						x	x		x					A CSIP as part of the Offshore CMS secured within condition 20(1)(d)(i) of the deemed marine licences of the draft DCO (document reference C1).	The offshore CMS will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement.	
Co29 (MMS: 6.3)		The CSIP will include measures where the time delay between sequential cable installation operations (e.g. cable-lay and post-lay burial), shall be minimised to as short as reasonably practicable.		Construction						x	x		x					The commitment is secured through the Outline FLCP (Document Reference J10). A CSIP as part of the Offshore CMS secured within condition 20(1)(d)(i) of the deemed marine licences of the draft DCO (document reference C1).	The offshore CMS will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline Fisheries Liaison and Coexistence Plan (J10).	
Co30 (MMS: 1.3, 2.3, 7.5, 9.7)	Primary	No more than 5% reduction in water depth (referenced to	Bathymetric survey to IHO Order 1a standard that meets the	Construction & Operation	x	x				x	x		x					A CSIP as part of the Offshore CMS	The offshore CMS will be	Volume 2, Chapter 1: Physical	

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		Chart Datum) will occur without prior written approval from the Licensing Authority in consultation with the Maritime Coastguard Agency (MCA). As per the standard navigation requirements, the cable protection will cause no more than a 5% reduction in water depth (referenced Chart Datum) without prior written approval from the Licensing Authority in consultation with the MCA. This will ensure any cable protection is sufficiently low profile to cause minimal changes to wave, tide and sediment transport.	requirements of MGN654, with data to be provided to the Maritime and Coastguard Agency (MCA) and the United Kingdom Hydrographic Office (UKHO) to assess the level of under keel clearance within the Morgan Array Area (see Co94).															secured within condition 20(1)(d)(i) of the deemed marine licences of the draft DCO (document reference C1).	prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, UKHO and other relevant statutory consultees as appropriate.	processes of the Environmental Statement. Volume 2, Chapter 2: Benthic, subtidal ecology of the Environmental Statement. Volume 2, Chapter 9: Other sea users of the Environmental Statement. Volume 2, Chapter 9: Other sea users of the Environmental Statement.	
Co31 (MMS: 1.4, 2.4, 3.7)	Primary	Material arising from drilling and/or sandwave clearance is to be deposited in close proximity to the works and within the licenced disposal area applied for (which is the Morgan Array Area).	Pre-construction and post-construction monitoring will be put in place to monitor changes to, and recovery of, sandwaves following the installation of inter array / interconnector cables (see Co88).	Construction	x	x	x											A CSIP as part of the Offshore CMS secured within condition 20(1)(d)(i) of the deemed marine licences of the draft DCO (document reference C1).	The offshore CMS will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, UKHO and other relevant statutory consultees as appropriate.	Volume 2, Chapter 1: Physical processes of the Environmental Statement. Volume 2, Chapter 2: Benthic, subtidal ecology of the Environmental Statement.	
Co32 (MMS: 2.6, 3.10)	Tertiary	Development of, and adherence to, an Offshore EMP. This will include a Biosecurity Risk Assessment and an INNS Management	Monitoring of INNS to establish presence / absence of INNS around seabed infrastructure and novel hard structures (see Co89). Monitoring of colonisation around a representative sample of gravity	Pre-construction Construction Operations and maintenance Decommissioning		x	x											The offshore EMP is secured within condition 20(e) of the deemed marine licences of the draft	The offshore EMP will be prepared post consent. To be prepared and approved	Volume 2, Chapter 2: Benthic, subtidal ecology of the Environmental Statement.	

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		Plan, including actions to minimise INNS.	base foundation structures (see Co90).															DCO (document reference C1). Monitoring is secured under condition 20(1)(c) in the dMLs within the DCO (document reference C1).	pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate. A monitoring plan (which accords with the offshore in principle monitoring plan) to include details of proposed surveys and be submitted to the MMO at least four months prior to survey commencement .	Outline Offshore Operations and Maintenance Plan (document reference J9).	
Co33 (MMS: 2.7, 3.9, 4.9, 5.3, 6.19, 7.12)	Tertiary	The offshore EMP will include a Marine Pollution Contingency Plan (MPCP) which will include planning for accidental spills, address all potential contaminant releases and include key emergency details.		Pre-construction Construction Operations and maintenance Decommissioning	x	x	x												An MPCP as part of the offshore EMP is secured within condition 20(e)(i) of the deemed marine licences of the Draft DCO (document reference C1).	Volume 2, Chapter 2: Benthic, subtidal ecology of the Environmental Statement. Outline Offshore Operations and Maintenance Plan (document reference J9).	
Co34 (MMS: 6.7, 7.4)	Tertiary	The offshore EMP will includes a Fisheries Liaison Coexistence Plan (FLCP), to include details of the appointment and responsibilities of a Company		Pre-construction Construction Operations and maintenance Decommissioning						x								The commitment is secured through the Outline FLCP (Document Reference J10). An FLCP as part of the offshore EMP is	The offshore EMP will be prepared post consent. To be prepared and approved pre-construction	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline Fisheries Liaison and	

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		Fisheries Liaison Officer (CFLO).																secured within condition 20(e)(v) of the deemed marine licences of the draft DCO (document reference C1).	and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.	Coexistence Plan (J10).	
Co35 (MMS: 6.8)	Tertiary	The FLCP will include for ongoing liaison with the fishing industry through the CFLO and FIR and adhere to good practice guidance with regards to fisheries liaison.		Pre-construction Construction Operations and maintenance Decommissioning					x									The commitment is secured through the Outline FLCP (Document Reference J10). An FLCP as part of the offshore EMP is secured within condition 20(e)(v) of the deemed marine licences of the draft DCO (document reference C1).	The offshore EMP will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline FLCP (document reference J10).	
Co36 (MMS: 6.9)	Tertiary	The FLCP will include for investigating the establishment of a commercial fisheries working group.		Pre-construction Construction Operations and maintenance Decommissioning					x									The commitment is secured through the Outline FLCP (Document Reference J10). An FLCP as part of the offshore EMP is secured within condition 20(e)(v) of the deemed marine licences of the draft	The offshore EMP will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline Fisheries Liaison and Coexistence Plan (J10).	

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					Physical processes	Benthic ecology	Fish and shellfish ecology	Marine mammals	Offshore ornithology	Commercial fisheries	Shipping and navigation	Marine archaeology and	Other sea users	Seascape landscape and	Aviation and radar	Climate change	Socio-economics				
																		DCO (document reference C1).	consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.		
Co37 (MMS: 6.9)	Tertiary	Notification to fishing fleets of construction and maintenance activities.		Construction Operations and maintenance Decommissioning						x								Notifications are secured under condition 26(2) and condition 15 in the deemed marine licences within the Draft DCO (Document Reference C1).	Compliance with the notifications and inspections condition within the DCO pre-construction.	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline Fisheries Liaison and Coexistence Plan (J10).	
Co38 (MMS: 6.10)	Tertiary	The FLCP will include for the use of Offshore Fisheries Liaison Officers (OFLOs) where required and appropriate. Regional OFLOs will be used where possible.								x								The commitment is secured through the Outline FLCP (Document Reference J10). An FLCP as part of the offshore EMP is secured within condition 20(e)(v) of the deemed marine licences of the draft DCO (document reference C1).	The offshore EMP will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline Fisheries Liaison and Coexistence Plan (J10). Outline Offshore Operations and Maintenance Plan (document reference J9).	
Co39 (MMS: 6.11, 7.6, 9.2)	Tertiary	Notification of construction, maintenance and decommissioning activities through the use of timely and efficient distribution of NtMs.		Pre-construction Construction Operations and maintenance Decommissioning						x	x		x					Secured under condition 15 of the deemed marine licences within the Draft DCO (Document Reference C1) and through the Outline	The offshore EMP will be prepared post consent. To be prepared and approved pre-construction	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline Fisheries Liaison and	

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					Physical processes	Benthic ecology	Fish and shellfish ecology	Marine mammals	Offshore ornithology	Commercial fisheries	Shipping and navigation	Marine archaeology and	Other sea users	Seascape landscape and	Aviation and radar	Climate change	Socio-economics				
																		FLCP (Document Reference J10).	and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.	Coexistence Plan (J10). Outline Offshore Operations and Maintenance Plan (document reference J9). Volume 2, Chapter 9: Other sea users of the Environmental Statement.	
Co40 (MMS: 11.3)	Tertiary	Defence Geographic Centre Notification - information regarding construction should be passed to the Defence Geographic Centre (DGC) (at dvof@mod.gov.uk) at least 10 weeks in advance of the obstacle type(s) erection detailing position, height (tip of arc) and type of aviation lighting. Once reported, all will be included in the DGC Obstruction database and all that meet aviation chart inclusion criteria will be published for broader awareness.		Pre-construction											x			In line with standard industry practice.	Information regarding construction will be passed to the DGC at least 10 weeks in advance of the obstacle type(s) erection detailing position, height (tip of arc) and type of aviation lighting.	Volume 2, Chapter 11: Aviation and radar of the Environmental Statement	
Co41 (MMS: 11.4)		Defence Infrastructure Organisation Safeguarding (DIOS) Notification - notify DIOS of the following at least 14 days prior to the commencement of construction: a. the date of the commencement of construction b. the date any wind turbines are brought into use		Pre-construction											x			Aviation safety is secured under condition 3 of the draft DCO (document reference C1).	Information regarding construction will be passed to the DIOS at least 14 days prior to the commencement of construction.	Volume 2, Chapter 11: Aviation and radar of the Environmental Statement	

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		c. the maximum height of any construction equipment to be used d. the maximum heights of any wind turbine, meteorological mast and OSP to be constructed e. the latitude and longitude of each wind turbine, meteorological mast and OSP to be constructed. The DIOS must be notified of any changes to the information supplied and of the completion of construction.																			
Co42 (MMS: 11.5)	Tertiary	NATS Aeronautical Information Service Notification - Appropriate information about the site construction and any associated lighting (where applicable), for example the height and temporary location of construction cranes, should be provided to the NATS Aeronautical Information Service (AIS) (for promulgation in applicable aviation publications including the UK Integrated Aeronautical Information Package (IAIP)).		Construction											x			In line with standard industry practice.	Information regarding construction will be passed to NATS in line with standard industry practice and in compliance with Article 225A of the Air Navigation Order.	Volume 2, Chapter 11: Aviation and radar of the Environmental Statement.	
Co43 (MMS: 6.12, 7.9, 9.1)	Tertiary	Use of advisory clearance distances and safety zones during construction and periods of major maintenance.		Construction Operations and maintenance Decommissioning						x	x		x					An application for safety zones will be made under The Energy Act 2004 and The Electricity (Offshore Generating Stations) (Safety Zones) (Applications Procedures and Control of Access) Regulations 2007, as per the Safety Zone	An application for safety zones will be made under the Energy Act 2004 post consent and prior to construction.	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Safety Zone Statement (document reference J5). Outline Fisheries Liaison and	

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					Physical processes	Benthic ecology	Fish and shellfish ecology	Marine mammals	Offshore ornithology	Commercial fisheries	Shipping and navigation	Marine archaeology and	Other sea users	Seascape landscape and	Aviation and radar	Climate change	Socio-economics				
																		Statement (document reference J5).		Coexistence Plan (J10).	
Co44 (MMS: 6.13)	Tertiary	The FLCP will include for the use of rolling advisory exclusion zones.		Construction Operations and maintenance Decommissioning						x	x		x					The commitment is secured through the Outline FLCP (Document Reference J10). An FLCP as part of the offshore EMP is secured within condition 20(e)(v) of the deemed marine licences of the draft DCO (document reference C1).	The offshore EMP will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline Fisheries Liaison and Coexistence Plan (J10).	
Co45 (MMS: 6.16)	Tertiary	The FLCP will include for annual reviews for the first five years of the operations and maintenance phase, to review Vessel Monitoring System (VMS) data, I-VMS (when available) and landings data to identify whether there are any changes to fishing activity within and around the Morgan Array Area and where there is change to discuss with commercial fisheries stakeholders.		Operations and maintenance						x								The commitment is secured through the Outline FLCP (Document Reference J10). An FLCP as part of the offshore EMP is secured within condition 20(e)(v) of the deemed marine licences of the draft DCO (document reference C1).	The offshore EMP will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline Fisheries Liaison and Coexistence Plan (J10).	
Co46 (MMS: 6.14, 7.2, 9.4)	Tertiary	Development of and adherence to an Aids to	The ANMP includes AtoN monitoring to ensure constant functionality	Pre-construction Construction						x	x		x		x			The commitment is secured through the	The offshore EMP will be	Volume 2, Chapter 6: Commercial	

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		Navigation Management Plan (ANMP) to ensure adequate navigational markers (including lighting), in accordance with the most recent relevant industry guidance and agreed prior to commencement of offshore construction.	through the lifetime of the Morgan Generation Assets. Trinity House to be informed of any defects (see Co98).	Operations and maintenance Decommissioning													Outline FLCP (Document Reference J10) and under conditon 16 of the deemed marine licences of the draft DCO (document reference C1). An FLCP as part of the offshore EMP is secured within condition 20(e)(v) of the deemed marine licences of the draft DCO (document reference C1).	prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.	fisheries of the Environmental Statement. Outline Offshore Operations and Maintenance Plan (document reference J9). Volume 2, Chapter 9: Other sea users of the Environmental Statement.			
Co47 (MMS: 6.17)	Tertiary	Compliance with dropped objects procedures. All dropped objects must be reported to the MMO using the Dropped Object Procedure Form.		Construction Operations and maintenance Decommissioning					x								Secured under condition 18(10) of the deemed marine licences within the Draft DCO (Document Reference C1).	Compliance with the chemicals, drilling and debris condition within the DCO.	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline Offshore Operations and Maintenance Plan (document reference J9).			
Co48 (MMS: 6.20)	Tertiary	‘As-laid’ co-ordinates of cables within the Morgan Array Area (i.e. inter array cables) shall be recorded and submitted to the UK Hydrographic Office (UKHO) and the Kingfisher Information Service – Offshore Renewable and Cable Awareness (KIS-ORCA Service). ‘As-laid’ cables shall be marked on Admiralty Charts and fisherman’s awareness charts (paper and electronic format).	The CMS includes details of periodic validation surveys of cable burial and protection to ensure specified requirements are met (see Co97). Hydrographic surveys to reduce the risk of grounding or snagging of cables. MGN654 and its annexes requires that hydrographic surveys should fulfil the requirements of the International Hydrographic Organisation Order 1a standard, with the final data supplied as a digital full density data set, and survey report to the MCA Hydrography Manager and the UKHO (see Co55).	Post-construction					x	x		x					The commitment is secured under condition 20(1)(iii) of the deemed marine licences within the Draft DCO (Document Reference C1).	Submission of a close-out report to the MMO, MCA, Trinity House, the UKHO and the relevant statutory nature conservation body within four months of the date of completion of construction with details of as built	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline Fisheries Liaison and Coexistence Plan (J10).			

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																			plans and coordinates.		
Co49 (MMS: 6.21)	Tertiary	The FLCP will include for the use of regional guard vessels where required.		Construction Operations and maintenance Decommissioning						x	x							The commitment is secured through the Outline FLCP (Document Reference J10). An FLCP as part of the offshore EMP is secured within condition 20(e)(v) of the deemed marine licences of the draft DCO (document reference C1).	The offshore EMP will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.	Volume 2, Chapter 6: Commercial fisheries of the Environmental Statement. Outline Fisheries Liaison and Coexistence Plan (J10).	
Co50 (MMS: 7.7)	Tertiary	Development of, and adherence to, a Vessel Traffic Management Plan (VTMP), to ensure coordination of passage plans, setting out vessel standards, setting out vessel health and safety requirements.	Development of, and adherence to, a Navigation Monitoring Strategy (as part of the Offshore IPMP) setting out continuous vessel traffic monitoring during construction and immediate post construction monitoring to identify unanticipated project impacts to Maritime and Coastguard Agency (MCA) approval (see Co94).	Construction Operations and maintenance Decommissioning				x	x		x		x					A VTMP secured under condition 20(h)(i) of the deemed marine licences within the draft DCO (document reference C1). An outline of this plan has been submitted as part of the Application (Document reference S_D5_18).	To be finalised and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement. Outline Vessel Traffic Management Plan (document reference S_D5_18).	
Co51 (MMS: 7.10)	Tertiary	The VTMP requires co-ordination of Morgan Generation Assets vessels during construction and operations and maintenance by the Project Marine Co-ordination Centre. This	Construction and post-construction monitoring of marine traffic (by automatic identification system (AIS)) with a report submitted annually to MMO, MCA and Trinity House. The report will assess the extent to which the impacts predicted in the NRA are	Construction Operations and maintenance Decommissioning							x		x					A VTMP secured under condition 20(h)(i) of the deemed marine licences within the draft DCO	To be finalised and approved pre-construction and must be submitted to and approved in writing by the	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement.	

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		includes a continuous watch by multi-channel Very High Frequency (VHF), including Digital Selective Calling.	accurate to ensure adopted risk controls are fit for purpose (see Co96).															(document reference C1). An outline of this plan has been submitted as part of the Application (Document reference S_D5_18).	MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.	Outline Vessel Traffic Management Plan (document reference S_D5_18).	
Co52 (MMS: 7.8, 9.3)	Tertiary	Site marking and charting on nautical charts including an appropriate chart note to facilitate safe passage planning around the Morgan Generation Assets.		Construction Operations and maintenance Decommissioning						x	x		x					Secured under condition 15(10), condition 27(4) and condition 29(3)(a) of the deemed marine licences within the draft DCO (document reference C1).	Notification to UKHO of completion of construction within 14 days.	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement. Volume 2, Chapter 9: Other sea users of the Environmental Statement.	
Co53 (MMS: 7.11)	Tertiary	Development of, and adherence to, an Emergency Response and Cooperation Plan (ERCoP), which sets out details of periodic exercises to reduce the consequences of incidents as part of compliance with MGN654 "Offshore Renewable Energy Installations (OREIs) – Guidance on UK Navigational Practice, Safety and Emergency Response Issues" (or any equivalent guidance that replaces or supersedes it) and its annexes.		Construction Operations and maintenance Decommissioning							x		x					Offshore safety management is secured under condition 25 of the deemed marine licences within the draft DCO (document reference C1).	The ERCoP will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement.	
Co54 (MMS: 7.13)	Tertiary	Incident investigation and reporting. Risk assessments to be reviewed following incidents, and additional risk controls identified if appropriate to reduce the likelihood of recurrence. Lessons learnt will be disseminated to improve		Construction Operations and maintenance Decommissioning							x							Incident reporting requirements and expectations including: <ul style="list-style-type: none">MAIB (Merchant Shipping Act)	To be implemented throughout the life of the Morgan Generation Assets. Risk assessments to be reviewed	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement.	

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					Physical processes	Benthic ecology	Fish and shellfish ecology	Marine mammals	Offshore ornithology	Commercial fisheries	Shipping and navigation	Marine archaeology and	Other sea users	Seascape landscape and	Aviation and radar	Climate change	Socio-economics				
		safety record of Morgan Generation Assets operations.																<ul style="list-style-type: none"> Health and Safety Executive (RIDDOR) Harbour Authority under Port Marine Safety Code.	following any incident.		
Co55 (MMS: 7.14)	Tertiary	Hydrographic surveys to reduce the risk of grounding or snagging of cables. MGN654 and its annexes requires that hydrographic surveys should fulfil the requirements of the International Hydrographic Organisation Order 1a standard, with the final data supplied as a digital full density data set, and survey report to the MCA Hydrography Manager and the UKHO.		Post-construction						x	x							Secured under condition 27(4) of the deemed marine licences within the draft DCO (document reference C1).	<p>The Offshore In Principle Monitoring Plan must be submitted to the MMO at least four months prior to the first pre-construction survey.</p> <p>Pre-construction surveys to be agreed with the MMO to ensure requirements of MGN654 are met.</p>	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement.	
Co56 (New commitment not within MMS)	Enhancement	Commitment to continue to consider biodiversity enhancement opportunities and engage with stakeholders including Natural Resources Wales. This includes application of a step-wise approach to developing the proposed biodiversity benefit measures presented in J18 Biodiversity benefit statement (APP-073).		All phases		x	x		x										To be explored and developed with relevant stakeholders post-consent.	Biodiversity benefit statement (Document reference J18).	
Co57 (MMS: 3.1, 4.1)	Primary	Development of, and adherence to, a Marine Mammal Mitigation Protocol (MMMP), based on the Outline MMMP (document reference S_D5_10) that requires implementation of an initiation	Measurements of underwater sound generated by the installation of the first four piles of each piled foundation type to be installed, and measurements of underwater sound generated by the installation of the first two piles where it is anticipated	Construction			x	x										MMMP secured under condition 20(h), pre-construction plans and documentation, and condition 23(b), UXO clearance, of the deemed marine	The MMMP will be finalised post consent and prior to commencement of pre-construction	<p>Volume 2, Chapter 3: Fish and shellfish ecology of the Environmental Statement.</p> <p>Volume 2, Chapter 5: Marine mammals</p>	

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					Physical processes	Benthic ecology	Fish and shellfish ecology	Marine mammals	Offshore ornithology	Commercial fisheries	Shipping and navigation	Marine archaeology and	Other sea users	Seascape landscape and	Aviation and radar	Climate change	Socio-economics				
		stage of a piling soft start and ramp-up ¹ . Adaptive measures will be applied if deemed necessary, if the results demonstrate the need for further action as detailed within the within the updated Offshore In Principle Monitoring Plan (document reference S_D5_21) submitted at Deadline 5.	hammer energies greater than 3,000kJ may be required for installation, and associated marine mammal monitoring, to be set out in the marine mammal mitigation protocol (MMMP). Monitoring is to ensure the level of underwater sound generated from percussive piling is not greater than predicted, and if relevant establish the efficacy of any relevant mitigation (such as NAS) (seeCo92).															licence(s) within the Draft DCO (document reference C1).	work. The MMMP will be submitted to and approved in writing by the MMO in consultation with the relevant statutory nature conservation body.	of the Environmental Statement. Outline MMMP (document reference S_D5_10).	
Co58 (MMP: 3.2, 4.2)	Primary	The MMMP sets a maximum separation limit of 15 km for concurrent piling.		Construction			x	x										MMMP secured under condition 20(h), pre-construction plans and documentation, and condition 23(b), UXO clearance, of the deemed marine licence(s) within the Draft DCO (document reference C1).	The MMMP will be finalised post consent and prior to commencement of pre-construction work. The MMMP will be submitted to and approved in writing by the MMO in consultation with the relevant statutory nature conservation body.	Volume 2, Chapter 3: Fish and shellfish ecology of the Environmental Statement. Volume 2, Chapter 5: Marine mammals of the Environmental Statement. Outline MMMP (document reference S_D5_10).	
Co59 (MMP: 3.3, 4.3)	Primary	The MMMP sets a minimum separation limit of 1.4 km for concurrent piling.		Construction			x	x										MMMP secured under condition 20(h), pre-construction plans and documentation, and condition 23(b), UXO clearance, of the deemed marine licence(s) within the Draft DCO (document reference C1).	The MMMP will be finalised post consent and prior to commencement of pre-construction work. The MMMP will be submitted to and approved	Volume 2, Chapter 3: Fish and shellfish ecology of the Environmental Statement. Volume 2, Chapter 5: Marine mammals of the Environmental Statement.	

¹ It is noted that the use of piling soft-start and ramp-up measures is to reduce associated risk of injury from underwater sound, noting this will not be effective for all fish species. Note: these measures are not required to and will likely not be sufficient to avoid all significant injury effects on impacts to fish receptors.

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																			in writing by the MMO in consultation with the relevant statutory nature conservation body.	Outline MMMP (document reference S_D5_10).	
Co60a (MMP: 3.4, 4.4)	Primary	The MMMP sets the limit on maximum hammer energy used during concurrent piling at 3,000 kJ and during the single event piling at 4,400 kJ.	Measurements of underwater sound generated by the installation of the first four piles of each piled foundation type to be installed, and measurements of underwater sound generated by the installation of the first two piles where it is anticipated hammer energies greater than 3,000kJ may be required for installation, and associated marine mammal monitoring, to be set out in the marine mammal mitigation protocol (MMMP). Monitoring is to ensure the level of underwater sound generated from percussive piling is not greater than predicted, and if relevant establish the efficacy of any relevant mitigation (such as NAS) (seeCo92).	Construction			x	x										MMMP secured under condition 20(h), pre-construction plans and documentation, and condition 23(b), UXO clearance, of the deemed marine licence(s) within the Draft DCO (document reference C1).	The MMMP will be finalised post consent and prior to commencement of pre-construction work. The MMMP will be submitted to and approved in writing by the MMO in consultation with the relevant statutory nature conservation body.	Volume 2, Chapter 3: Fish and shellfish ecology of the Environmental Statement. Volume 2, Chapter 5: Marine mammals of the Environmental Statement. Outline MMMP (document reference S_D5_10).	
Co60b	Primary	The MMMP sets the limit on maximum hammer single event piling at 4,400 kJ for up to 16 locations and 3,000 kJ for the remaining foundation locations.	Measurements of underwater sound generated by the installation of the first four piles of each piled foundation type to be installed, and measurements of underwater sound generated by the installation of the first two piles where it is anticipated hammer energies greater than 3,000kJ may be required for installation, and associated marine mammal monitoring, to be set out in the marine mammal mitigation protocol (MMMP). Monitoring is to ensure the level of underwater sound generated from percussive piling is not greater than predicted, and if relevant establish the efficacy of any	Construction			x	x										MMMP secured under condition 20(h), pre-construction plans and documentation, and condition 23(b), UXO clearance, of the deemed marine licence(s) within the Draft DCO (document reference C1).	The MMMP will be finalised post consent and prior to commencement of pre-construction work. The MMMP will be submitted to and approved in writing by the MMO in consultation with the relevant statutory nature conservation body.	Volume 2, Chapter 3: Fish and shellfish ecology of the Environmental Statement. Volume 2, Chapter 5: Marine mammals of the Environmental Statement. Outline MMMP (document reference S_D5_10).	

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			relevant mitigation (such as NAS) (seeCo92).																		
Co61 (New commitment not in MMS)	Primary	The MMMP sets out that no more than two piling vessels will be operating within the Morgan Generation Assets development area at one time (i.e. one concurrent piling event only).		Construction			x	x										MMMP secured under condition 20(h), pre-construction plans and documentation, and condition 23(b), UXO clearance, of the deemed marine licence(s) within the Draft DCO (document reference C1).	The MMMP will be finalised post consent and prior to commencement of pre-construction work. The MMMP will be submitted to and approved in writing by the MMO in consultation with the relevant statutory nature conservation body.	Volume 2, Chapter 4: Marine mammals of the Environmental Statement. Outline MMMP (document reference S_D5_10).	
Co62 (MMS: 3.5, 4.5)	Primary	<p>The MMMP requires implementation of a mitigation hierarchy with regard to UXO clearance that follows:</p> <ul style="list-style-type: none"> • Avoid UXO • Clear UXO with low order techniques • Clear UXO with high order techniques • Maximum of two UXO clearance events per 24 hour period <p>UXO clearance with high order techniques is not included within the draft DCO. If UXO clearance with high order techniques is required, the Applicant will apply for this under a separate marine licence.</p>		Pre-construction			x	x										MMMP secured under condition 20(h), pre-construction plans and documentation, and condition 23(b), UXO clearance, of the deemed marine licence(s) within the Draft DCO (document reference C1).	The MMMP will be finalised post consent and prior to commencement of pre-construction work. The MMMP will be submitted to and approved in writing by the MMO in consultation with the relevant statutory nature conservation body.	Volume 2, Chapter 3: Fish and shellfish ecology of the Environmental Statement. Volume 2, Chapter 5: Marine mammals of the Environmental Statement. Outline MMMP (document reference S_D5_10).	

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Co63 (MMS: 3.8, 4.6)	Tertiary	MMMP to ensure appropriate mitigation is in place for activities that could potentially lead to injurious effects on marine mammals including: piling, UXO clearance and some types of geophysical activities.	Measurements of underwater sound generated by the installation of the first four piles of each piled foundation type to be installed, and measurements of underwater sound generated by the installation of the first two piles where it is anticipated hammer energies greater than 3,000kJ may be required for installation, and associated marine mammal monitoring, to be set out in the marine mammal mitigation protocol (MMMP). Monitoring is to ensure the level of underwater sound generated from percussive piling is not greater than predicted, and if relevant establish the efficacy of any relevant mitigation (such as NAS) (seeCo92).	Pre-construction Construction			x	x										MMMP secured under condition 20(h), pre-construction plans and documentation, and condition 23(b), UXO clearance, of the deemed marine licence(s) within the Draft DCO (document reference C1). UWSMS secured under condition 22(1) of the deemed marine licence(s) within the Draft DCO (document reference C1).	The MMMP will be finalised post consent and prior to commencement of pre-construction work. The MMMP will be submitted to and approved in writing by the MMO in consultation with the relevant statutory nature conservation body.	Volume 2, Chapter 3: Fish and shellfish ecology of the Environmental Statement. Outline MMMP (document reference S_D5_10). Outline Underwater Sound Management Strategy (UWSMS) (document reference J13).	
Co64 (MMS: 3.11)	Tertiary	The offshore EMP will be issued to all Project vessel operators, requiring them to: <ul style="list-style-type: none"> not deliberately approach basking sharks and other marine megafauna keep vessel speed to a minimum where deemed to be appropriate avoid abrupt changes in course or speed should basking sharks or other marine megafauna approach the vessel, where appropriate and possible taking into account all technical considerations. Codes of Conduct within the Outline Measures to Minimise Disturbance to Marine Mammals and Rafting Birds plan (document reference J15) will be adhered to at all times.		Pre-construction Construction Operations and maintenance Decommissioning			x											The offshore EMP is secured within condition 20(e) of the deemed marine licences of the draft DCO (document reference C1).	The offshore EMP will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.	Volume 2, Chapter 3: Fish and shellfish ecology of the Environmental Statement. Outline Measures to Minimise Disturbance to Marine Mammals and Rafting Birds (document reference J15).	

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Co65 (MMS:4.8, 5.2)	Tertiary	The offshore EMP will include measures to minimise disturbance to marine mammals and rafting birds from transiting vessels. The offshore EMP will include a commitment that the site induction processes will incorporate the principles of the Wildlife Safe (WiSe) Scheme to ensure that key personnel are aware of the need to follow the WiSe Code of Conduct. The WiSe Scheme (https://www.wisescheme.org/), which is a UK national training scheme for minimising disturbance to marine life, key measures from the scheme will reduce the disturbance of vessel transits on marine mammals and rafting birds visible at the water surface, or as otherwise agreed with the Statutory Nature Conservation Bodies (SNCBs).		Pre-construction Construction Operations and maintenance Decommissioning				x	x									The measures to minimise disturbance to marine mammals and rafting birds from transiting vessels will be included within the offshore EMP which is secured within condition 20(e) of the deemed marine licences of the draft DCO (document reference C1).	The offshore EMP will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO, the IoM Government and other statutory consultees as appropriate.	Volume 2, Chapter 4: Marine mammals of the Environmental Statement.	
Co66 (MMS: 3.12, 4.7)	Tertiary	Development of, and adherence to, an UWSMS (developed from the Outline document reference J13) to ensure appropriate mitigation is established and adhered to if final design identifies a risk of significant effects on marine mammal, cod and or herring receptors.		Pre-construction Construction			x	x										UWSMS secured under condition 22(1) of the deemed marine licence(s) within the Draft DCO (document reference C1).	The underwater sound management strategy must be submitted to the MMO no later than four months prior to the commencement of the relevant activities.	Volume 2, Chapter 3: Fish and shellfish ecology of the Environmental Statement. Outline Underwater Sound Management Strategy (UWSMS) (document reference J13).	
Co67 (MMS: 4.10, 6.18)	Tertiary	Development of, and adherence to, a Decommissioning Programme in accordance with the Energy Act 2004.		Decommissioning	x	x	x	x	x	x	x	x	x	x	x	x	x	Legal obligation of the Energy Act 2004 and secured through condition 5 of the Draft DCO (Document Reference C1).	A decommissioning programme will be submitted to, and approved, by the Secretary of State prior to the	Volume 2, Chapter 4: Marine mammals of the Environmental Statement. Volume 2, Chapter 6: Commercial	

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		A Decommissioning Programme is required under the provisions of the Energy Act 2004 and this must be approved by the Secretary of State before works commence.																	commencement of decommissioning works.	fisheries of the Environmental Statement.	
Co68 (MMS: 7.16)	Tertiary	Personal Protective Equipment (PPE). To maintain the safety of those working at the Morgan Generation Assets, all personnel will wear the correct PPE suitable for the location and role at all times, as defined by the relevant Quality, Health, Safety and Environment documentation. This will include the use of Personal Locator Beacons.		Construction Operations and maintenance Decommissioning							x							Industry best practice.	To be implemented throughout the life of the Morgan Generation Assets.	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement.	
Co69 (MMS: 7.17)	Tertiary	Inspection and maintenance programme.		Operations and maintenance							x							Industry best practice.	To be implemented throughout the life of the scheme.	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement.	
Co70 (MMS: 7.18)	Tertiary	Training and site inductions. To maintain the safety of those working at the Morgan Generation Assets, the Applicant is responsible for ensuring that all staff engaged on operations are competent to carry out the allocated work and have completed a site induction.		Construction Operations and maintenance Decommissioning							x							Industry best practice.	To be implemented throughout the life of the scheme.	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement.	
Co71 (MMS: 7.19)	Tertiary	Compliance with International, UK and Flag State Regulations inc. IMO conventions. To ensure navigational safety, compliance from all vessels associated with the proposed project with international maritime regulations as adopted by the relevant flag state such as Convention on		Construction Operations and maintenance Decommissioning							x							Statutory requirement.	To be implemented throughout the life of the scheme.	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement.	

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		the International Regulations for Preventing Collisions at Sea (IMO, 1972) and Safety of Life at Sea Convention (SOLAS) (IMO, 1974).																			
Co72 (MMS: 7.20)	Tertiary	Continued engagement of the Marine Navigation Engagement Forum (MNEF), for a period of five years post construction.		Pre-construction Construction Operations and maintenance							x							Industry best practice. Secured through this Commitments Register, formerly Mitigation and Monitoring Schedule (document reference J6).	To be implemented through the pre-construction and during construction periods for a number of years into the operational and maintenance phase.	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement.	
Co73 (MMS: 11.2)	Tertiary	Lighting as required and/or determined necessary for aviation safety as agreed with the Defence Infrastructure Organisation Safeguarding and the Civil Aviation Authority for the operational life of the Morgan Generation Assets unless otherwise agreed with the Ministry of Defence. The location of all infrastructure (including wind turbines, OSPs, and cables) will be communicated to the UKHO so that they can be incorporated into Aviation Charts and the Notice to Aviators (NOTAM).		Construction Operations and maintenance Decommissioning										x				Aviation lighting is secured under condition 3(1) of the Draft DCO (document reference C1).	Discharge of the aviation safety condition within the DCO pre-construction.	Volume 2, Chapter 11: Aviation and radar of the Environmental Statement.	
Co74 (MMS: 8.3)	Tertiary	Development of, and adherence to, an Outline Offshore Written Scheme of Investigation (WSI) including the establishment of PAD, prior to any post-consent works within the Morgan Array Area.		Pre-construction Construction Operations and maintenance							x							Outline Offshore WSI and PAD is secured under condition 20(f) of the deemed marine licence(s) of the draft DCO (document reference C1).	To be finalised and approved pre-construction and must be submitted to and approved in writing by the MMO, in	Volume 2, Chapter 8: Marine archaeology and cultural heritage of the Environmental Statement. Outline Offshore Written Scheme of	

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																			consultation with the statutory historic body.	Investigation for Archaeology (document reference J14).	
Co75 (MMS: 8.4)	Tertiary	The WSI includes the establishment of a PAD, which details the methodology for further site investigation, including archaeological input into specifications for, and archaeological analysis of, any post-consent, site investigation. The responsibilities of the Morgan Generation Assets Retained Archaeologist includes being consulted in the preparation of any pre-construction surveys where relevant, including geophysical, geotechnical and ROV/diver survey and, if appropriate, in monitoring/checking of data.		Pre-construction Construction Operations and maintenance							x							Outline Offshore WSI and PAD is secured under condition 20(f) of the deemed marine licence(s) of the draft DCO (document reference C1).	To be finalised and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with the statutory historic body.	Volume 2, Chapter 8: Marine archaeology and cultural heritage of the Environmental Statement. Outline Offshore Written Scheme of Investigation for Archaeology (document reference J14).	
Co76 (MMS: 8.5)	Tertiary	The WSI and PAD ensures operational awareness and avoidance, where possible, of the location of archaeological anomalies identified as having a low potential.		Pre-construction Construction Operations and maintenance							x							Outline Offshore WSI and PAD is secured under condition 20(f) of the deemed marine licence(s) of the draft DCO (document reference C1).	To be finalised and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with the statutory historic body.	Volume 2, Chapter 8: Marine archaeology and cultural heritage of the Environmental Statement. Outline Offshore Written Scheme of Investigation for Archaeology (document reference J14).	
Co77 (MMS: 8.6)	Tertiary	The WSI and PAD details that archaeologists are to be consulted in the preparation of pre-construction cable route clearance or other pre-construction clearance operation, where relevant, and, if appropriate, to carry out		Pre-construction Construction Operations and maintenance							x							Outline Offshore WSI and PAD is secured under condition 20(f) of the deemed marine licence(s) of the draft DCO (document reference C1).	To be finalised and approved pre-construction and must be submitted to and approved in writing by the MMO, in	Volume 2, Chapter 8: Marine archaeology and cultural heritage of the Environmental Statement. Outline Offshore Written Scheme of	

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		archaeological monitoring of such work.																	consultation with the statutory historic body.	Investigation for Archaeology (document reference J14).	
Co78 (MMS: 8.7)	Tertiary	The WSI and PAD details the delivery of any mitigation including, where necessary, identification and modification of AEZs and TAEZs.	Monitoring will include the appropriateness of, and adjustments that need to be made to, AEZs during the lifetime of Morgan Generation Assets, where required (see condition Co99).	Pre-construction Construction Operations and maintenance								x						Outline Offshore WSI and PAD is secured under condition 20(f) of the deemed marine licence(s) of the draft DCO (document reference C1).	To be finalised and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with the statutory historic body	Volume 2, Chapter 8: Marine archaeology and cultural heritage of the Environmental Statement. Outline Offshore Written Scheme of Investigation for Archaeology (document reference J14).	
Co79 (MMS: 8.8)	Tertiary	The WSI and PAD details that any agreed archaeological report is deposited with the National Record of the Historic Environment, by submitting an OASIS (Online Access to the Index of archaeological investigations) form with a digital copy of the report within six months of completion of construction of the Morgan Generation Assets.		Pre-construction Construction Operations and maintenance								x						Outline Offshore WSI and PAD is secured under condition 20(f) of the deemed marine licence(s) of the draft DCO (document reference C1).	To be finalised and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with the statutory historic body. Agreed archaeological reports are to be deposited with the National Record of the Historic Environment, within six months of completion of construction.	Volume 2, Chapter 8: Marine archaeology and cultural heritage of the Environmental Statement. Outline Offshore Written Scheme of Investigation for Archaeology (document reference J14).	
C80 (MMS: 8.9, 10.1)	Tertiary	The nacelles, blades and towers will be painted light grey.		Construction Operations and maintenance								x		x				Except as otherwise required by Trinity House the undertaker must paint all structures forming part	Discharge of the colouring of structures condition within	Volume 2, Chapter 8: Marine archaeology and cultural heritage of	

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																		of the authorised project yellow (colour code RAL 1023) from at least HAT to a height as directed by Trinity House. Unless the MMO otherwise directs, the undertaker must paint the remainder of the structures grey (colour code RAL 7035). Secured under condition 17 of the draft DCO (document reference C1).	the DCO pre-construction.	the Environmental Statement. Volume 2, Chapter 10: Seascape, landscape and visual resources of the Environmental Statement	
Co81 (MMS: 8.10)	Tertiary	The lights will be operated at the lowest permissible intensity level. The aviation lighting will be kept to 200 candelas in good visibility conditions. However, in poor visibility (e.g. foggy conditions, the lighting levels may rise to 2,000 candelas).									x			x	x			Lighting levels are secured under condition 3(3) of the Draft DCO (document reference C1).	To be implemented throughout the life of the scheme.	Volume 2, Chapter 8: Marine archaeology and cultural heritage of the Environmental Statement	
Co82 (MMS: 8.1)	Primary	Development of, and adherence to Archaeological Exclusion Zones (AEZs) around those sites identified as having high and medium archaeological potential as presented in the Offshore Historic Environment Plan (document reference B7) and the Outline Offshore (WSI) and PAD (document reference J14). The Design Plan will include final wind turbine locations to avoid any AEZs identified in pre-construction site investigation surveys or micro-	Monitoring will include the appropriateness of, and adjustments that need to be made to, AEZs during the lifetime of Morgan Generation Assets, where required (see Co99).	Pre-construction Construction							x							Outline Written Scheme of Investigation (WSI) and Protocol for Archaeological Discoveries (PAD) and the need for a Design Plan to be approved is secured under condition 20(f) of the deemed marine licence(s) of the draft DCO (document reference C1).	To be finalised and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with the statutory historic body.	Volume 2, Chapter 8: Marine archaeology and cultural heritage of the Environmental Statement. Outline Offshore Written Scheme of Investigation for Archaeology (document reference J14).	

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		siting requirements as set out in the Offshore WSI and PAD.																			
Co83 (MMS: 8.2)	Primary	Development of, and adherence to Temporary Archaeological Exclusion Zones (TAEZs) based on all available information including the stated positional accuracy, the recorded size of the target and the potential archaeological significance as presented in the Offshore Historic Environment Plan (document reference B7) and the Outline Offshore WSI and PAD (document reference J14).	Monitoring will include the appropriateness of, and adjustments that need to be made to, AEZs during the lifetime of Morgan Generation Assets, where required (see Co99).	Pre-construction Construction							x							Outline WSI and PAD is secured under condition 20(f) of the deemed marine licence(s) of the draft DCO (document reference C1).	To be finalised and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with the statutory historic body.	Volume 2, Chapter 8: Marine archaeology and cultural heritage of the Environmental Statement. Outline Offshore Written Scheme of Investigation for Archaeology. (document reference J14).	
Make Co84 (MMS: 9.5)	Tertiary	Continued communication with other offshore energy operators to promote and maximise cooperation between parties and minimise both spatial and temporal interactions between conflicting activities.		Pre-construction Construction Operations and maintenance Decommissioning									x					In line with standard industry practice.	To be implemented throughout the life of the Morgan Generation Assets.	Volume 2, Chapter 9: Other sea users of the Environmental Statement.	
Co85 (MMS: 9.6)	Tertiary	Proximity agreements will be negotiated and agreed with relevant cable operators, to minimise the potential for any impact in accordance with recognised industry good practice.		Pre-construction Construction Operations and maintenance Decommissioning									x					In line with standard industry practice.	To be implemented throughout the life of the Morgan Generation Assets.	Volume 2, Chapter 9: Other sea users of the Environmental Statement.	
Co86 (MMS: 14.1)	Tertiary	The Applicant has provided Greenhouse Gas Reduction Strategy at Deadline 4 (document reference S_D4_14). The Greenhouse Gas Reduction Strategy considers the emissions reported within the Environmental Statement, and outlines possible emission reduction opportunities. It		Construction Operations and maintenance Decommissioning												x		This document sets out a framework strategy to minimise emissions associated with the Morgan Generation Assets in line with the requirements of National Policy	The Strategy is a framework for exploring viable emission reduction opportunities throughout the design process.	Volume 2, Chapter 12: Climate change of the Environmental Statement. Greenhouse Gas Reduction Strategy submitted at Deadline 4 (S_D4_14).	

MORGAN OFFSHORE WIND PROJECT: GENERATION ASSETS

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					Physical processes	Benthic ecology	Fish and shellfish ecology	Marine mammals	Offshore ornithology	Commercial fisheries	Shipping and navigation	Marine archaeology and	Other sea users	Seascape landscape and	Aviation and radar	Climate change	Socio-economics				
		illustrates the design considerations made by the Applicant to date to reduce GHG emissions, along with further potential opportunities which can be considered through the next stages of the Morgan Generation Assets lifecycle.																Statement EN 1 (DESNZ, 2023).			
Co87 (MMS: 13.1)	Tertiary	The Applicant has provided an Outline Skills and Employment Plan (document reference J8).		Pre-construction Construction Operations and maintenance Decommissioning													x	This document sets out the principles that will be secured for the Morgan Generation Assets which will be part of a full skills and employment plan for the whole Morgan Offshore Wind Project which will be secured via the Morgan and Morecambe Offshore Wind Farms: Transmission Assets DCO. This will secure the economic benefits associated with the Morgan Generation Assets in relation to skills and employment within the offshore wind sector.	To be prepared for the whole Morgan Offshore Wind Project across both Transmission and Generation consents	Volume 2, Chapter 13: Socio-economics of the Environmental Statement Outline Skills and Employment Plan (document reference J8)	
Co88 (MMS: 1.6)	Monitoring	Pre-construction and post-construction monitoring will be put in place to monitor changes to, and recovery of, sandwaves following the installation of inter array / interconnector cables. Monitoring will adopt an adaptive approach in terms of reviewing the findings of the post consent surveys as detailed within the within the updated Offshore In Principle Monitoring Plan (document		Pre-construction and post-construction phases (duration dependent on monitoring results)	x	x												Secured via the offshore in principle monitoring plan via condition 20(c) in the deemed marine licences within the Draft DCO (document reference C1) and via a CSIP as part of the Offshore CMS secured within condition 20(1)(d)(i) in deemed marine	The monitoring plan will be prepared post consent and submitted to the MMO at least four months prior to the first pre-construction survey. The post construction monitoring results will be discussed	Volume 2, Chapter 1: Physical processes of the Environmental Statement. Updated Offshore in Principle Monitoring Plan (document reference S_D5_21) submitted at Deadline 5.	

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		reference S_D5_21) submitted at Deadline 5.																licences of the draft DCO (document reference C1).	with the MMO following each survey to establish the need for any further monitoring.		
Co89 (MMS: 2.8)	Monitoring	Monitoring of INNS to establish presence / absence of INNS around seabed infrastructure. Should the monitoring detect the presence of INNS, the feasibility of collecting samples of the communities colonising the seabed infrastructure for further analysis of INNS will be considered as an adaptive measure.		Post construction		x	x											Secured through condition 20(1)(c) in the dMLs within the DCO (document reference C1).	A monitoring plan (which accords with the offshore in principle monitoring plan) to include details of proposed surveys and be submitted to the MMO at least four months prior to survey commencement.	Updated Offshore in Principle Monitoring Plan (document reference S_D5_21) submitted at Deadline 5.	
Co90 (MMS: 2.9)	Monitoring	Monitoring of colonisation around a representative sample of gravity base foundation structures. Should the monitoring detect the presence of INNS, the feasibility of collecting samples of the communities colonising the seabed infrastructure for further analysis of INNS will be considered as an adaptive measure.		Post-construction		x	x											Secured through condition 20(1)(c) in the dMLs within the DCO (document reference C1).	A monitoring plan (which accords with the offshore in principle monitoring plan) to include details of proposed surveys and be submitted to the MMO at least four months prior to survey commencement.	Updated Offshore in Principle Monitoring Plan (document reference S_D5_21) submitted at Deadline 5.	
Co91 (MMS: 3.13, 6.22)	Monitoring	Development and implementation of a monitoring programme which includes pre- and post- construction monitoring of Queen scallop (and consideration of presence		Pre-construction Post-construction			x			x								Offshore monitoring plan secured under condition 20(c) of the deemed marine licences within the	The Offshore In Principle Monitoring Plan must be submitted to and approved by the	Updated Offshore in Principle Monitoring Plan (document reference S_D5_21). submitted at Deadline 5.	

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		of King scallop) in and around the Morgan Array Area for up to five years post-construction with annual reporting. If it is evident following a period of adaptive monitoring that the effect on Queen scallop is significantly worse than predicted in the ES, then further adaptive measures will be developed with the MMO as detailed within the updated Offshore In Principle Monitoring Plan (document reference S_D5_21) submitted at Deadline 5.																Draft DCO (document reference C1).	MMO, in consultation with the relevant statutory nature conservation body, at least four months prior to the first pre-construction survey.		
Co92 (MMS: 4.11)	Monitoring	Measurements of underwater sound generated by the installation of the first four piles of each piled foundation type to be installed, and measurements of underwater sound generated by the installation of the first two piles where it is anticipated hammer energies greater than 3,000kJ may be required for installation, and associated marine mammal monitoring, to be set out in the marine mammal mitigation protocol (MMMP). Monitoring is to ensure the level of underwater sound generated from percussive piling is not greater than predicted, and if relevant establish the efficacy of any relevant mitigation (such as NAS).		Construction			x	x										Offshore monitoring plan secured under condition 20(c) and MMMP secured under condition 20(h), pre-construction plans and documentation, of the deemed marine licence(s) within the Draft DCO (document reference C1).	The MMMP will be finalised post consent and prior to commencement of pre-construction work. The MMMP will be submitted to and approved in writing by the MMO in consultation with the relevant statutory nature conservation body.	Updated Offshore in Principle Monitoring Plan (document reference S_D5_21) submitted at Deadline 5.	
Co93 (MMS: 6.23)	Monitoring	Preparation of an Offshore CMS post-consent with details of cable monitoring to reduce snagging risk.		Construction Operations and maintenance						x	x		x					An Offshore CMS secured within condition 20(1)(d) of the deemed marine licences of the draft	The offshore CMS will be prepared post consent.	Volume 2, Chapter 6: Commercial fisheries of the	

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																		DCO (document reference C1).	To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA and UKHO as appropriate	Environmental Statement. Updated Offshore in Principle Monitoring Plan (document reference S_D5_21) submitted at Deadline 5	
Co94 (MMS: 7.21)	Monitoring	Development of, and adherence to, a Navigation Monitoring Strategy (as part of the Offshore IPMP) setting out continuous vessel traffic monitoring during construction and immediate post construction monitoring to identify unanticipated project impacts to Maritime and Coastguard Agency (MCA) approval.		Construction Post-construction							x							Secured under condition 28(1) in the deemed marine licence(s) within the draft DCO (document reference C1).	Preparation and adherence to a Navigation Monitoring Strategy (as part of the Offshore IPMP) for construction and post-construction monitoring of marine traffic (by AIS) with a report submitted annually to MMO, MCA and Trinity House.	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement.	
Co95 (MMS: 7.22)	Monitoring	Bathymetric survey to IHO Order 1a standard that meets the requirements of MGN654, with data to be provided to the Maritime and Coastguard Agency (MCA) and the United Kingdom Hydrographic Office (UKHO) to assess the level of under keel clearance within the Morgan Array Area.		Pre-construction							x							Secured under condition 27(4) in the deemed marine licence(s) within the draft DCO (document reference C1).	The Offshore In Principle Monitoring Plan must be submitted to the MMO at least four months prior to the first pre-construction survey. Pre-construction surveys to be agreed with the MMO to ensure	Updated Offshore in Principle Monitoring Plan (document reference S_D5_21) submitted at Deadline 5.	

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																			requirements of MGN654 are met.		
Co96 (MMS: 7.23, 7.26)	Monitoring	Construction and post-construction monitoring of marine traffic (by automatic identification system (AIS)) with a report submitted annually to MMO, MCA and Trinity House. The report will assess the extent to which the impacts predicted in the NRA are accurate to ensure adopted risk controls are fit for purpose.		Construction Post-construction							x							Secured under condition 28(1) in the deemed marine licence(s) within the draft DCO (document reference C1).	The Offshore In Principle Monitoring Plan will be submitted to the MMO at least four months prior to the first pre-construction survey. Reports will be submitted to the MMO, MCA and Trinity House annually throughout the construction period.	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement. Updated Offshore in Principle Monitoring Plan (document reference S_D5_21) submitted at Deadline 5	
Co97 (MMS: 7.24, 7.27)	Monitoring	The CMS includes details of periodic validation surveys of cable burial and protection to ensure specified requirements are met.		Construction Post-construction						x	x		x					An Offshore CMS secured within condition 20(1)(d) of the deemed marine licences of the draft DCO (document reference C1).	The offshore CMS will be prepared post consent. To be prepared and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA and UKHO as appropriate.	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement. Updated Offshore in Principle Monitoring Plan (document reference S_D5_21) submitted at Deadline 5	
Co98 (MMS: 7.25)	Monitoring	The ANMP includes AtoN monitoring to ensure constant functionality through the lifetime of the Morgan Generation Assets. Trinity		Construction Operations and maintenance Decommissioning						x	x		x					The ANMP is secured under condition 20(g) of the deemed marine licences within the	The ANMP will be prepared post consent. To be prepared and approved	Volume 2, Chapter 7: Shipping and navigation of the Environmental Statement.	

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		House to be informed of any defects.																draft DCO (document reference C1).	pre-construction and must be submitted to and approved in writing by the MMO in consultation with Trinity House.	Updated Offshore in Principle Monitoring Plan (document reference S_D5_21) submitted at Deadline 5	
Co99 (MMS 8.11)	Monitoring	Development of, and adherence to, an Outline Offshore WSI including the establishment of PAD, which through the acquisition of relevant spatial survey data, includes monitoring of AEZs. This monitoring will include the appropriateness of, and adjustments that need to be made to, AEZs during the lifetime of Morgan Generation Assets, where required. Further detail is set out within the updated Offshore In Principle Monitoring Plan (S_D5_21).		Pre-construction Construction									x					Outline Offshore WSI and PAD is secured under condition 20(f) of the deemed marine licence(s) of the draft DCO (document reference C1) and subsequent method statements produced by the Retained Archaeologist and approved by the Statutory Archaeological Curator in advance of works commencing.	To be finalised and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with the statutory historic body.	Volume 2, Chapter 8: Marine archaeology and cultural heritage of the Environmental Statement. Outline Offshore Written Scheme of Investigation for Archaeology (document reference J14).	
Co100	Tertiary	Development of, and adherence to, a Vessel Traffic Management Plan (VTMP), which requires review of towage capability of Morgan Generation Assets project vessels as part of the vessel management undertaken by the Marine Co-ordination Centre		Construction Operations and maintenance Decommissioning			x	x		x			x					A VTMP secured under condition 20(h)(i) of the deemed marine licences within the draft DCO (document reference C1). An updated outline of this plan has been submitted at Deadline 5 (Document reference S_D5_18).	To be finalised and approved pre-construction and must be submitted to and approved in writing by the MMO, in consultation with Trinity House, the MCA, the UKHO and other statutory consultees as appropriate.	Updated Outline Vessel Traffic Management Plan (document reference S_D5_18).	