

MONA OFFSHORE WIND PROJECT

Appendix to ExQ1 Q1.0.2 Assessment of cumulative impacts

Deadline: 3

Application Reference: EN010137

Document Reference: S_D3_25.1

Document Number: MOCNS-J3303-RPS-10336

30 September 2024

F01



Image of an offshore wind farm

MONA OFFSHORE WIND PROJECT

Document status

Version	Purpose of document	Authored by	Reviewed by	Approved by	Review date
F01	Submission at Deadline 3	RPS	Mona Offshore Wind Ltd	Mona Offshore Wind Ltd	30 Sept 2024

Prepared by:

RPS

Prepared for:

Mona Offshore Wind Ltd.

Contents

1	APPENDIX TO EXQ1 Q1.0.2 ASSESSMENT OF CUMULATIVE IMPACTS	1
1.1	Introduction	1
1.2	Response.....	1
1.2.2	Volume 2, Chapter 1: Physical processes (APP-053)	3
1.2.3	Volume 2, Chapter 2: Benthic subtidal and intertidal ecology (APP-054).....	6
1.2.4	Volume 2, Chapter 3: Fish and shellfish ecology (APP-055).....	14
1.2.5	Volume 2, Chapter 4: Marine mammals (APP-056).....	21
1.2.6	Volume 2, Chapter 5: Offshore ornithology (APP-057).....	32
1.2.7	Volume 2, Chapter 6: Commercial fisheries (APP-058).....	39
1.2.8	Volume 2, Chapter 7: Shipping and navigation (APP-059).....	47
1.2.9	Volume 2, Chapter 8: Seascape and visual resources (APP-060)	53
1.2.10	Volume 2, Chapter 9: Marine archaeology (APP-061).....	68
1.2.11	Volume 2, Chapter 10: Other sea users (APP-062).....	69
1.2.12	Volume 3, Chapter 1: Geology, hydrogeology and ground conditions (APP-064)	71
1.2.13	Volume 3, Chapter 2: Hydrology and flood risk (APP-065).....	73
1.2.14	Volume 3, Chapter 3: Onshore ecology (APP-066)	89
1.2.15	Volume 3, Chapter 4: Onshore and intertidal ornithology (APP-067)	94
1.2.16	Volume 3, Chapter 5: Historic environment (APP-068)	95
1.2.17	Volume 3, Chapter 6: Landscape and visual resources (APP-069)	96
1.2.18	Volume 3, Chapter 7: Land use and recreation (APP-070)	103
1.2.19	Volume 3, Chapter 8: Traffic and transport (APP-071).....	105
1.2.20	Volume 3, Chapter 9: Noise and vibration (APP-072)	107
1.2.21	Volume 3, Chapter 10: Air quality (APP-073)	108
1.2.22	Volume 4, Chapter 1: Aviation and radar (APP-075).....	110
1.2.23	Volume 4, Chapter 3: Socio-economics (APP-077).....	112
1.3	References	115

Tables

Table 1.1:	Projects, plans and activities screened into the CEA for Volume 2, Chapter 1: Physical processes (APP-053).....	3
Table 1.2:	Projects, plans and activities screened into the CEA for Volume 2, Chapter 2: Benthic subtidal and intertidal ecology (APP-054).....	6
Table 1.3:	Projects, plans and activities screened into the CEA for Volume 2, Chapter 3: Fish and shellfish ecology (APP-055).....	14
Table 1.4:	Projects, plans and activities screened into the CEA for Volume 2, Chapter 4: Marine mammals (APP-056).....	21
Table 1.5:	Projects, plans and activities screened into the CEA for Volume 2, Chapter 5: Offshore ornithology (APP-057).....	32
Table 1.6:	Projects, plans and activities screened into the CEA for Volume 2, Chapter 6: Commercial fisheries (APP-058).....	39
Table 1.7:	Projects, plans and activities screened into the CEA for Volume 2, Chapter 7: Shipping and navigation (APP-059).....	47
Table 1.8:	Projects, plans and activities screened into the CEA for Volume 2, Chapter 8: Seascape and visual resources (APP-060).....	53
Table 1.9:	Projects, plans and activities screened into the CEA for Volume 2, Chapter 9: Marine archaeology (APP-061).....	68
Table 1.10:	Projects, plans and activities screened into the CEA for Volume 2, Chapter 10: Other sea users (APP-062).....	69
Table 1.11:	Projects, plans and activities screened into the CEA for Volume 3, Chapter 1: Geology, hydrogeology and ground conditions (APP-064).....	71
Table 1.12:	Projects, plans and activities screened into the CEA for Volume 3, Chapter 2: Hydrology and flood risk (APP-065).....	73

MONA OFFSHORE WIND PROJECT

Table 1.13: Projects, plans and activities screened into the CEA for Volume 3, Chapter 3: Onshore ecology (APP-066).....	89
Table 1.14: Projects, plans and activities screened into the CEA for Volume 3, Chapter 4: Onshore and intertidal ornithology (APP-067).....	94
Table 1.15: Projects, plans and activities screened into the CEA for Volume 3, Chapter 5: Historic environment (APP-068).....	95
Table 1.16: Projects, plans and activities screened into the CEA for Volume 3, Chapter 6: Landscape and visual resources (APP-069).....	96
Table 1.17: Projects, plans and activities screened into the CEA for Volume 3, Chapter 7: Land use and recreation (APP-070).....	103
Table 1.18: Projects, plans and activities screened into the CEA for Volume 3, Chapter 8: Traffic and transport (APP-071).....	105
Table 1.19: Projects, plans and activities screened into the CEA for Volume 3, Chapter 9: Noise and vibration (APP-072).....	107
Table 1.20: Projects, plans and activities screened into the CEA for Volume 3, Chapter 10: Air quality (APP-073).....	108
Table 1.21: Projects, plans and activities screened into the CEA for Volume 4, Chapter 1: Aviation and radar (APP-075).....	110
Table 1.22: Projects, plans and activities screened into the CEA for Volume 4, Chapter 3: Socio-economics (APP-077).....	112

Glossary

Term	Meaning
Applicant	Mona Offshore Wind Limited.
Development Consent Order (DCO)	An order made under the Planning Act 2008 granting development consent for one or more Nationally Significant Infrastructure Project (NSIP).
LANDMAP	LANDMAP is a complete all-Wales GIS based landscape resource where landscape characteristics, qualities and influences on the landscape are recorded and evaluated into a nationally consistent data set.
Mona Offshore Wind Project	The Mona Offshore Wind Project is comprised of both the generation assets, offshore and onshore transmission assets, and associated activities.
The Planning Inspectorate	The agency responsible for operating the planning process for Nationally Significant Infrastructure Projects.

Acronyms

Acronym	Description
ADD	Acoustic Deterrent Device
AEZ	Archaeological Exclusion Zone
AIL	Abnormal Indivisible Load
AONB	Area of Outstanding Natural Beauty
CFLO	Company Fisheries Liaison Officer
CBRA	Cable Burial Risk Assessment
CCS	Carbon Capture and Storage
CEA	Cumulative Effects Assessment

MONA OFFSHORE WIND PROJECT

Acronym	Description
CIRIA	Construction Industry Research and Information Association
CMS	Construction Method Statement
CoCP	Code of Construction Practice
CSIP	Cable Specification and Installation Plan
CTMP	Construction Traffic Management Plan
DCC	Denbighshire County Council
DP	Design Plan
ECoW	Ecological Clerk of Works
EMF	Electromagnetic Fields
EMP	Environmental Management Plan
EPS	European Protected Species
ERCoP	Emergency Response and Cooperation Plan
FCA	Flood Consequence Assessment
FIR	Fishing Industry Representative
GCN	Great Crested Newt
GVA	Gross Value Added
HAMP	Highways Access Management Plan
HE	Historic England
HGV	Heavy Goods Vehicle
IEF	Important Ecological Feature
INNS	Invasive Non-Native Species
IoM	Isle of Man
IoMSPC	Isle of Man Steam Packet Company
LAT	Lowest Astronomical Tide
LEMP	Landscape and Ecology Management Plan
LRN	Local Road Network
MCA	Maritime Coastguard Agency
MLWS	Mean Low Water Springs
MMO	Marine Management Organisation
MMMP	Marine Mammal Mitigation Protocol
MPA	Marine Protected Area
NGET	National Grid Electricity Transmission
NL	National Landscape
NRW	Natural Resource Wales
NtMs	Notices to Mariners
OEMP	Offshore Environmental Management Plan

MONA OFFSHORE WIND PROJECT

Acronym	Description
OFLO	Offshore Fisheries Liaison Officer
OHAMP	Outline Highways Access Management Plan
PAD	Protocol for Archaeological Discoveries
PAM	Passive Acoustic Monitoring
PSR	Primary Surveillance Radar
REWS	Radar Early Warning Systems
RNLI	Royal National Lifeboat Institution
SAC	Special Area of Conservation
SLVIA	Seascape and Landscape Visual Impact Assessment
SMZ	Scallop Mitigation Zone
SRN	Strategic Road Network
SSC	Suspended Sediment Concentrations
SSZ	Seascape Sensitivity Zone
SuDS	Sustainable Drainage Systems
UKHO	United Kingdom Hydrographic Office
VMS	Vessel Monitoring System
VP	Viewpoint
WSI	Written Scheme of Investigation

Units

Unit	Description
km	Kilometres
kV	Kilovolt (electrical potential)
m	Metres

1 Appendix to ExQ1 Q1.0.2 Assessment of Cumulative Impacts

1.1 Introduction

1.1.1.1 This document has been prepared in response to Question Q1.0.2 of the Examining Authority's first round of Written Questions addressed to The Applicant. The question is as follows:

Cumulative effects

Whilst the ExA notes the provision of a Cumulative Effects Screening Matrix, it would assist if a table that presents an assessment of cumulative impacts including the likely significant effects of the Proposed Development with 3rd party developments was provided. The ExA would point the Applicant to [APP-177] of the Drax Carbon Capture and Storage Project as an example.

1.2 Response

1.2.1.1 Cumulative effects are defined as those that result from incremental changes caused by other reasonably foreseeable projects, plans and activities that were not present at the time of data collection or survey, alongside the project in question. The Cumulative Effects Assessment (CEA) within the Environmental Statement therefore, considers the likely effects arising from the Mona Offshore Wind Project alongside the likely effects of other projects, plans and activities in the vicinity of the Mona Offshore Wind Project, based on the information available in the public domain.

1.2.1.2 As per paragraph 5.4.2.4 of Volume 1, Chapter 5: Environmental Impact Assessment methodology (APP-052), RenewableUK and the Natural Environment Research Council (NERC) have published guidelines on the undertaking of the CEA 'Cumulative Impact Assessment Guidelines' (RenewableUK, 2013) and the Planning Inspectorate have published an advice note, 'Advice Note Seventeen: Cumulative Effects Assessment' (Planning Inspectorate, 2019). The approach to CEA undertaken for the Mona Offshore Wind Project takes into account the principles outlined in the RenewableUK guidelines and the Planning Inspectorate Advice Note.

1.2.1.3 The Mona Offshore Wind Project CEA has also taken into account feedback received at various stages, including Scoping, consultation in line with Section 42 of the Planning Act 2008, non-statutory feedback from stakeholders, and representations made throughout the Examination process.

1.2.1.4 Regarding updated information received since the Mona Offshore Wind Project application in February 2024, and in response to Q1.0.1 of the Examining Authority's first round of Written Questions addressed to the Applicant, a review of the CEA to account for recently published information on other projects and plans has been completed for Deadline 3. This is presented in the Review of Cumulative Effects Assessment and In-Combination Assessment (S_D3_18). The recently published information on other projects and plans considered in the Review of Cumulative Effects Assessment and In-Combination Assessment (S_D3_18) have also been included in the tables below, where relevant. Where a project was considered in the application but new information on that project is considered in the Review of Cumulative Effects Assessment and In-Combination Assessment (S_D3_18), this project has only been listed under its tier in the application CEA in the tables below, it is not presented twice. An updated version of the Cumulative effects screening matrix has also been submitted at Deadline 3 (F5.5.1 F02).

MONA OFFSHORE WIND PROJECT

- 1.2.1.5 Q1.0.2 requested the Applicant to review APP-177 of the Drax Carbon Capture and Storage Project as an example for this document. The Applicant has reviewed APP-177 of the Drax Carbon Capture and Storage Project and has used it as a basis for this document to produce a project-specific tailored document that succinctly sets out a summary of the Mona Offshore Wind Project application CEA. For each impact assessed in each topic-specific CEA, the following has been provided:
- The section number of the assessment within that chapter
 - The full name of the impact as it appears in the assessment
 - All projects, plans and activities screened into the CEA for that impact
 - Proposed measures adopted as part of the Mona Offshore Wind Project relevant to that impact
 - The residual effect of the CEA for that impact (where the conclusion of effects is the same for all three tiers these have been presented together).
- 1.2.1.6 This document summarises the CEAs of the topic-specific chapters of the Mona Offshore Wind Project application, as set out in the Application Guide (APP-005) and a summary of the new projects considered within the Review of Cumulative Effects Assessment and In-Combination Assessment (S_D3_18).

1.2.2 Volume 2, Chapter 1: Physical processes (APP-053)

Table 1.1: Projects, plans and activities screened into the CEA for Volume 2, Chapter 1: Physical processes (APP-053).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
1.11.2	Increase in suspended sediments due to construction, operations and maintenance and/or decommissioning related activities, and the potential impact to physical features.	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm Maintenance of Rhyl Flats Wind Farm Maintenance of Gwynt y Môr Offshore Wind Farm Maintenance and decommissioning of North Hoyle Wind Farm Use of Conwy River disposal site Operation of Hilbre Swash extraction. <p>Tier 2</p> <ul style="list-style-type: none"> Morgan Generation Assets Morgan and Morecambe Offshore Wind Farms: Transmission Assets Morecambe Generation Assets Eni Hynet Carbon Capture and Storage (CCS (Carbon Capture and Storage)) Liverpool Bay aggregate extraction area 457. <p>Tier 3</p> <ul style="list-style-type: none"> MaresConnect. <p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> Isle of Man (IoM)-UK Interconnector 	<ul style="list-style-type: none"> Development and adherence to an Offshore Construction Method Statement (CMS) which includes a Cable Specification and Installation Plan (CSIP) that will only permit sandwave clearance on the Constable Bank within the swept path width (20 m) of the cable burial tool and does not permit sandwave clearance in the Menai Strait and Conwy Bay Special Area of Conservation (SAC) Development and adherence to a Landfall Method Statement which commits to the installation of Mona export cables via trenchless techniques under the intertidal area from below Mean Low Water Springs (MLWS), where the exit pits will be located, to onshore. There will be no open-cut trenching or placement of cable protection within the intertidal area. 	<p>C: Negligible adverse O: Negligible adverse D: Negligible adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
1.11.3	Impacts to the tidal regime due to presence of infrastructure and the associated potential impacts along adjacent shorelines.	<ul style="list-style-type: none"> • Microsoft Wales-Ireland. <p>Tier 1</p> <ul style="list-style-type: none"> • Awel y Môr Offshore Wind Farm. <p>Tier 2</p> <ul style="list-style-type: none"> • Morgan Generation Assets • Morgan and Morecambe Offshore Wind Farms: Transmission Assets • Morecambe Generation Assets. <p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> • Isle of Man (IoM)-UK Interconnector • Microsoft Wales-Ireland. 	<ul style="list-style-type: none"> • Development and adherence to an Offshore CMS including a CSIP which will include cable burial where possible and cable protection. • Development and adherence to an Offshore CMS will include details of scour protection management to be used around offshore structures and foundations to reduce scour. The scour protection measures will be subject to engineering design to ensure they minimise as much as practical the occurrence of scour • Development and adherence to a Landfall Method Statement which commits to the installation of Mona export cables via trenchless techniques under the intertidal area from below MLWS, where the exit pits will be located, to onshore. There will be no open-cut trenching or placement of cable protection within the intertidal area. • Development and adherence to an Offshore CMS which includes a CSIP that does not permit cable protection higher than 70 cm to be installed within in the Menai Strait and Conwy Bay SAC and does not permit the installation of cable protection within Constable Bank. If and where cable protection is required within the SAC the cable protection measure used will be with sufficiently low 	<p>C: Negligible adverse O: Negligible adverse D: Negligible adverse</p>
1.11.4	Impacts to the wave climate due to presence of infrastructure and the associated potential impacts along adjacent shorelines.	<p>Tier 1</p> <ul style="list-style-type: none"> • Awel y Môr Offshore Wind Farm. <p>Tier 2</p> <ul style="list-style-type: none"> • Morgan Generation Assets • Morgan and Morecambe Offshore Wind Farms: Transmission Assets • Morecambe Generation Assets. <p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> • Isle of Man (IoM)-UK Interconnector • Microsoft Wales-Ireland. 	<ul style="list-style-type: none"> • Development and adherence to an Offshore CMS which includes a CSIP that does not permit cable protection higher than 70 cm to be installed within in the Menai Strait and Conwy Bay SAC and does not permit the installation of cable protection within Constable Bank. If and where cable protection is required within the SAC the cable protection measure used will be with sufficiently low 	<p>C: Negligible adverse O: Negligible adverse D: Negligible adverse</p>
1.11.5	Impacts to sediment transport and sediment transport pathways due to	<p>Tier 1</p> <ul style="list-style-type: none"> • Awel y Môr Offshore Wind Farm. 	<ul style="list-style-type: none"> • Development and adherence to an Offshore CMS which includes a CSIP that does not permit cable protection higher than 70 cm to be installed within in the Menai Strait and Conwy Bay SAC and does not permit the installation of cable protection within Constable Bank. If and where cable protection is required within the SAC the cable protection measure used will be with sufficiently low 	<p>C: Negligible adverse O: Negligible adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
	presence of infrastructure and associated potential impacts to physical features and bathymetry.	<p>Tier 2</p> <ul style="list-style-type: none"> • Morgan Generation Assets • Morgan and Morecambe Offshore Wind Farms: Transmission Assets • Morecambe Generation Assets. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> • Isle of Man (IoM)-UK Interconnector • Microsoft Wales-Ireland. 	<p>profile to cause minimal changes to wave, tide and sediment transport.</p> <ul style="list-style-type: none"> • No more than 5% reduction in water depth (referenced to Chart Datum) will occur at any point along the Mona offshore cable corridor without prior written approval from the Licensing Authority in consultation with the Maritime Coastguard Agency (MCA). • Development and adherence to an Offshore CMS which includes a CSIP that will only permit sandwave clearance on the Constable Bank within the swept path width (20 m) of the cable burial tool and does not permit sandwave clearance in the Menai Strait and Conwy Bay SAC. • Development and adherence to an Offshore CMS which includes a CSIP which require material arising from drilling and/or sandwave clearance to be deposited in close proximity to the works and within the licenced disposal area applied for. 	D: Negligible adverse

MONA OFFSHORE WIND PROJECT

1.2.3 Volume 2, Chapter 2: Benthic subtidal and intertidal ecology (APP-054)

Table 1.2: Projects, plans and activities screened into the CEA for Volume 2, Chapter 2: Benthic subtidal and intertidal ecology (APP-054).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
2.11.2	Temporary habitat loss/disturbance	<p>Tier 1</p> <ul style="list-style-type: none"> • Offshore windfarm projects: <ul style="list-style-type: none"> – Awel y Môr Offshore Wind Farm – Rhyl Flats Offshore Wind Farm - operations and maintenance marine licences – Gwynt y Môr Offshore Wind Farm – North Hoyle Offshore Wind Farm - operations and maintenance marine licences – Burbo Bank Extension Offshore Wind Farm - operations and maintenance marine licences – Walney Extension Offshore Wind Farm – West of Duddon Sands Offshore Wind Farm - operations and maintenance marine licence – Walney 2 Offshore Wind farm – operations and maintenance marine licences – Walney 1 Offshore Wind farm – operations and maintenance marine licences – Burbo Bank Offshore Wind Farm – operations and maintenance marine licences 	<ul style="list-style-type: none"> • A 50 m exclusion buffer will be in place to avoid the <i>Sabellaria alveolata</i> reef and <i>Mytilus edulis</i> bed at the landfall. • Development and adherence to a Landfall construction method statement (in accordance with the Outline Landfall construction method statement (REP2-066)) which commits to the installation of Mona export cables via trenchless techniques under the intertidal area from below MLWS, where the exit pits will be located, to onshore. • An ECoW (Ecological Clerk of Works) will supervise any planned construction works in the intertidal zone. • All construction and operation and maintenance activities at the Mona landfall (i.e. trenchless techniques working areas and movement of machinery, equipment and personnel) will be located outside the clay with piddocks IEF (Important Ecological Feature). • Development and adherence to an Offshore CMS which includes a CSIP that will only permit sandwave clearance on the Constable Bank within the swept path area (20 m) of the cable burial tool. 	<p>C: Minor adverse O: Minor adverse D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> - Ormonde Offshore Wind farm – operations and maintenance marine licences - Barrow Offshore Wind Farm – operations and maintenance marine licences and decommissioning phase - Routine operations and maintenance activities at five Offshore Substations (Barrow, Ormonde, Lincs, Westermost Rough, and Gunfleet Sands). • Oil and Gas projects: <ul style="list-style-type: none"> - Isle of Man Crogga Licence • Dredging projects: <ul style="list-style-type: none"> - Conwy River - Liverpool 2 and River Mersey approach channel dredging - Mersey channel and river maintenance dredge disposal renewal - RNLI (Royal National Lifeboat Institution) North Division - Regional Licence for Low Impact Maintenance Works - Dee River – RNLI Regional Maintenance - Liverpool Marina Maintenance Dredging - sustainable relocation of dredged material to the River Mersey - Douglas Harbour, Isle of Man 	<ul style="list-style-type: none"> • Development and adherence to an Offshore CMS which includes a CSIP that does not permit sandwave clearance within the Menai Strait and Conwy Bay SAC. 	

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> - Walney Extension pontoon/jetty dredging and disposal - Port of Barrow maintenance dredging disposal licence • Aggregate extraction activities <ul style="list-style-type: none"> - Hilbre Swash (area 392/393) aggregate extraction. • Inter-connector cables <ul style="list-style-type: none"> - Isle of Man to UK Interconnector Cable - maintenance and repair/ cable protection remedial works. <p><u>Tier 2</u></p> <ul style="list-style-type: none"> • Offshore windfarm projects: <ul style="list-style-type: none"> - Mooir Vannin Offshore Windfarm - Morgan and Morecambe Offshore Windfarms Transmission Assets - Morecambe Generation Assets - Morgan Generation Assets - ENI Hynet CCS • Aggregate extraction activities <ul style="list-style-type: none"> - Liverpool Bay (area 457) aggregate extraction. <p><u>Tier 3</u></p> <ul style="list-style-type: none"> • Cables/pipelines: <ul style="list-style-type: none"> - MaresConnect <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> • Microsoft Wales-Ireland. 		

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
2.11.3	Increased SSC (Suspended Sediment Concentrations) and associated deposition	<p>Tier 1</p> <ul style="list-style-type: none"> • Offshore windfarm projects: <ul style="list-style-type: none"> – Awel y Môr Offshore Wind Farm – Rhyl Flats Wind Farm – Gwynt y Môr Offshore Wind Farm – North Hoyle Wind Farm. • Aggregate extraction activities: <ul style="list-style-type: none"> – Hilbre Swash (area 392/393) extraction. • Dredge projects: <ul style="list-style-type: none"> – Conwy River. <p>Tier 2</p> <ul style="list-style-type: none"> • Offshore renewables projects: <ul style="list-style-type: none"> – Morgan Offshore Wind Project Generation Assets – Morgan and Morecambe Offshore Windfarms Transmission Assets – Morecambe Offshore Windfarm Generation Assets – Eni Hynet CCS. • Aggregate extraction activities <ul style="list-style-type: none"> – Liverpool Bay (area 457) aggregate extraction. <p>Tier 3</p> <ul style="list-style-type: none"> • Cables and pipelines: <ul style="list-style-type: none"> – MaresConnect cable. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p>	<ul style="list-style-type: none"> • Development and adherence to an Offshore CMS which includes a CSIP that will only permit sandwave clearance on the Constable Bank within the swept path area (20 m) of the cable burial tool. • Development and adherence to an Offshore CMS which includes a CSIP that does not permit sandwave clearance within the Menai Strait and Conwy Bay SAC. • Development and adherence to an Offshore CMS which includes a CSIP which requires material arising from drilling and/or sandwave clearance to be deposited in close proximity to the works. 	<p>Tier 1 C: Negligible adverse to Minor adverse O: Negligible adverse</p> <p><u>Tier 2</u> C: Negligible adverse to Minor adverse O: Negligible adverse D: Negligible adverse to Minor adverse</p> <p><u>Tier 3</u> C: Negligible adverse to Minor adverse <u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u> C: Negligible adverse to Minor adverse O: Negligible adverse D: Negligible adverse to Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
2.11.4	Long term habitat loss/habitat alteration	<ul style="list-style-type: none"> IoM-UK Interconnector Microsoft Wales-Ireland. <p>Tier 1</p> <ul style="list-style-type: none"> Offshore windfarm projects: <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm. <p>Tier 2</p> <ul style="list-style-type: none"> Offshore windfarm projects: <ul style="list-style-type: none"> Moor Vannin Offshore Windfarm Morgan and Morecambe Offshore Windfarms Transmission Assets Morgan Offshore Wind Project Generation Assets Morecambe Offshore Windfarm Generation Assets Eni Hynet CCS. Oil and Gas projects: <ul style="list-style-type: none"> Isle of Man Crogga Licence. <p>Tier 3</p> <ul style="list-style-type: none"> Cables/pipelines: <ul style="list-style-type: none"> MaresConnect. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> IoM-UK Interconnector Microsoft Wales-Ireland. 	<ul style="list-style-type: none"> Development and adherence to an Offshore CMS which includes a CSIP that does not permit the percentage of export cable requiring cable protection to exceed 10% of the total length of the export cable within the Menai Strait and Conwy Bay SAC. Development and adherence to an Offshore CMS which includes a CSIP that does not permit the installation of cable protection within Constable Bank. Development and adherence to an Offshore CMS including a CSIP which will include cable burial where possible and cable protection. A 50 m exclusion buffer will be in place to avoid the <i>Sabellaria alveolata</i> reef and <i>Mytilus edulis</i> bed at the landfall. All construction and operation and maintenance activities at the Mona landfall (i.e. trenchless techniques working areas and movement of machinery, equipment and personnel) will be located outside the clay with piddocks IEF. An ECoW will supervise any planned construction works in the intertidal zone. 	<p>Tier 1</p> <p>C: Minor adverse O: Minor adverse</p> <p>Tier 2</p> <p>C: Minor adverse O: Minor adverse D: Minor adverse</p> <p>Tier 3</p> <p>C: Minor adverse O: Minor adverse</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>C: Minor adverse O: Minor adverse D: Minor adverse</p>
2.11.5	Introduction of artificial structures	<p>Tier 1</p> <ul style="list-style-type: none"> Offshore windfarm projects: 	<ul style="list-style-type: none"> None 	<p>Tier 1</p> <p>C: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> – Awel y Môr Offshore Wind Farm. • Oil and Gas projects: <ul style="list-style-type: none"> – Isle of Man Crogga Licence. <u>Tier 2</u> • Offshore windfarm projects: <ul style="list-style-type: none"> – Mooir Vannin Offshore Windfarm – Morgan and Morecambe Offshore Windfarms Transmission Assets – Morgan Offshore Wind Project Generation Assets – Morecambe Offshore Windfarm Generation Assets – Eni Hynet CCS. <u>Tier 3</u> • Cables/pipelines: <ul style="list-style-type: none"> – MaresConnect <u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u> • IoM-UK Interconnector • Microsoft Wales-Ireland. 		<p>O: Minor adverse D: Minor adverse <u>Tier 2</u> C: Minor adverse O: Minor adverse D: Minor adverse <u>Tier 3</u> C: Minor adverse O: Minor adverse <u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u> C: Minor adverse O: Minor adverse D: Minor adverse</p>
2.11.6	Increased risk of introduction and spread INNS (Invasive Non-Native Species)	<p><u>Tier 1</u></p> <ul style="list-style-type: none"> • Offshore windfarm projects: <ul style="list-style-type: none"> – Awel y Môr Offshore Wind Farm. • Oil and Gas projects: <ul style="list-style-type: none"> – Isle of Man Crogga Licence <u>Tier 2</u> • Offshore windfarm projects: 	<ul style="list-style-type: none"> • Development of, and adherence to, an Offshore EMP (Environmental Management Plan). This will include a Biosecurity Risk Assessment and an INNS Management Plan, including actions to minimise INNS. 	<p><u>Tier 1</u> C: Minor adverse O: Minor adverse <u>Tier 2</u> C: Minor adverse O: Minor adverse D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> - Mooir Vannin Offshore Windfarm - Morgan and Morecambe Offshore Windfarms Transmission Assets - Morgan Offshore Wind Project Generation Assets - Morecambe Offshore Windfarm Generation Assets - Eni Hynet CCS. <p>Tier 3</p> <ul style="list-style-type: none"> • Cables/pipelines: <ul style="list-style-type: none"> - MaresConnect. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> • IoM-UK Interconnector • Microsoft Wales-Ireland. 		<p><u>Tier 3</u></p> <p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>D: Minor adverse</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>D: Minor adverse</p>
2.11.7	Removal of hard substrate	<p><u>Tier 2</u></p> <ul style="list-style-type: none"> • Offshore windfarm projects: <ul style="list-style-type: none"> - Mooir Vannin Offshore Windfarm - Morgan Offshore Wind Project Generation Assets decommissioning phase. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> • Eni Hynet CCS • IoM-UK Interconnector • Microsoft Wales-Ireland 	<ul style="list-style-type: none"> • None 	<p><u>Tier 2</u></p> <p>D: Minor adverse</p> <p><u>Tier 3</u></p> <p>D: Minor adverse</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
2.11.8	Changes in physical processes	<ul style="list-style-type: none"> • Morecambe Offshore Windfarm Generation Assets. <p>Tier 1</p> <ul style="list-style-type: none"> • Offshore windfarm projects: <ul style="list-style-type: none"> – Awel y Môr Offshore Wind Farm. <p>Tier 2</p> <ul style="list-style-type: none"> • Offshore windfarm projects: <ul style="list-style-type: none"> – Morgan and Morecambe Offshore Windfarms Transmission Assets – Morecambe Offshore Windfarm Generation Assets – Morgan Offshore Wind Project Generation Assets. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> • Eni Hynet CCS • IoM-UK Interconnector • Microsoft Wales-Ireland. 	<ul style="list-style-type: none"> • Development and adherence to an Offshore CMS which includes a CSIP that does not permit cable protection higher than 70 cm to be installed within in the Menai Strait and Conwy Bay SAC. • No more than 5% reduction in water depth (referenced to Chart Datum) will occur at any point along the Mona Offshore Cable Corridor without prior written approval from the Licensing Authority in consultation with the MCA. • Development and adherence to an Offshore CMS, which will include details of scour protection management, to be used around offshore structures and foundations to reduce scour as much as is practical. 	<p>Tier 1</p> <p>O: Negligible to Minor adverse D: Negligible to Minor adverse</p> <p>Tier 2</p> <p>O: Negligible to Minor adverse D: Negligible to Minor adverse</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>O: Negligible to Minor adverse D: Negligible to Minor adverse</p>

1.2.4 Volume 2, Chapter 3: Fish and shellfish ecology (APP-055)

Table 1.3: Projects, plans and activities screened into the CEA for Volume 2, Chapter 3: Fish and shellfish ecology (APP-055).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
3.9.2	Temporary subtidal habitat loss/disturbance	<p>Tier 1</p> <ul style="list-style-type: none"> • Offshore Wind Farm projects: <ul style="list-style-type: none"> – Awel y Môr Offshore Wind Farm • Dredging projects: <ul style="list-style-type: none"> – Walney Extension pontoon/jetty dredging and disposal – Port of Barrow maintenance dredging disposal licence – Liverpool Marina Maintenance Dredging – Liverpool 2 and River Mersey approach channel dredging – Mersey channel and river maintenance dredge disposal renewal – Castletown Bay, IoM – Douglas Harbour, IoM – Conwy River – Dee River – RNLI Regional Maintenance • Aggregates extraction activities: <ul style="list-style-type: none"> – Hilbre Swash aggregate extraction <p>Tier 2</p> <ul style="list-style-type: none"> • Offshore Wind Farm projects: <ul style="list-style-type: none"> – Morecambe Offshore Windfarm Generation Assets 	<ul style="list-style-type: none"> • Development of, and adherence to, an Offshore EMP throughout all phases, and actions to reduce potential for introduction of INNS. 	<p><u>Tier 1</u> C: Negligible to minor adverse</p> <p><u>Tier 2</u> C: Minor adverse D: Minor adverse</p> <p><u>Tier 3</u> C: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> - Morgan Offshore Wind Project: Generation Assets - Morgan and Morecambe Offshore Wind Farms Transmission Assets - Eni HyNet CCS project • Aggregates extraction activities: <ul style="list-style-type: none"> - Liverpool Bay Area 457 Tier 3 • Cables and pipelines: <ul style="list-style-type: none"> - MaresConnect – Wales-Ireland Interconnector Cable 		
3.9.3	Underwater sound impacting fish and shellfish receptors	<p>Tier 1</p> <ul style="list-style-type: none"> • Offshore wind farm projects: <ul style="list-style-type: none"> - Awel y Môr Offshore Wind Farm <p>Tier 2</p> <ul style="list-style-type: none"> • Offshore wind farm projects: <ul style="list-style-type: none"> - Morgan Offshore Wind Project: Generation Assets - Morecambe Offshore Windfarm Generation Assets - Morgan and Morecambe Offshore Wind Farms Transmission Assets - Eni HyNet CCS project 	<ul style="list-style-type: none"> • Adherence to a MMMP (Marine Mammal Mitigation Protocol), including implementation of piling soft-start and ramp-up measures. This measure will minimise the risk of injury to fish species in the immediate vicinity of piling activities, allowing individuals to move away from the area before sound levels reach a level at which injury may occur. • Development of and adherence to an Underwater sound management strategy (Document Reference J16) that includes consideration of Noise Abatement Systems (NAS) as part of mitigation options. A commitment to considering Noise Abatement Systems (NAS) as part of mitigation options in the 	C: Minor adverse

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			Underwater sound management strategy, which will be developed in accordance with the Outline underwater sound management strategy (Document Reference J16), will be made as part of a stepped strategy post consent and following the mitigation hierarchy - avoid, reduce, mitigate.	
3.9.4	Increased SSCs and associated sediment deposition	<p>Tier 1</p> <ul style="list-style-type: none"> • Offshore Wind Farm projects: <ul style="list-style-type: none"> – Awel y Môr Offshore Wind Farm • Dredging projects: <ul style="list-style-type: none"> – Walney Extension pontoon/jetty dredging and disposal – Port of Barrow maintenance dredging disposal licence – Liverpool Marina Maintenance Dredging – Liverpool 2 and River Mersey approach channel dredging – Mersey channel and river maintenance dredge disposal renewal – Castletown Bay, IoM – Douglas Harbour, IoM – Conwy River – Dee River – RNLI Regional Maintenance. • Aggregate extraction activities: 	<ul style="list-style-type: none"> • Development of, and adherence to, an Offshore EMP. 	<p><u>Tier 1</u> C: Minor adverse</p> <p><u>Tier 2</u> C: Minor adverse</p> <p><u>Tier 3</u> C: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> - Hilbre Swash aggregate extraction <p>Tier 2</p> <ul style="list-style-type: none"> • Offshore Wind Farm projects: <ul style="list-style-type: none"> - Morecambe Offshore Windfarm Generation Assets - Morgan Offshore Wind Project: Generation Assets - Morgan and Morecambe Offshore Wind Farms Transmission Assets. - ENI HyNet CCS project • Aggregates extraction activities: <ul style="list-style-type: none"> - Liverpool Bay Area 457 <p>Tier 3</p> <ul style="list-style-type: none"> • Cables and pipelines: <ul style="list-style-type: none"> - MaresConnect – Wales-Ireland Interconnector Cable. 		
3.9.5	Long term habitat loss	<p>Tier 1</p> <ul style="list-style-type: none"> • Offshore wind farm projects: <ul style="list-style-type: none"> - Awel y Môr Offshore Wind Farm. <p>Tier 2</p> <ul style="list-style-type: none"> • Offshore wind farm projects: <ul style="list-style-type: none"> - Morgan Offshore Wind Project: Generation Assets - Morecambe Offshore Windfarm Generation Assets - Morgan and Morecambe Offshore Wind Farms Transmission Assets. - ENI HyNet CCS project 	<ul style="list-style-type: none"> • Development of, and adherence to, an Offshore EMP throughout all phases; actions to reduce potential for introduction of INNS, and development and adherence to an Offshore CMS including a CSIP. 	<p>Tier 1</p> <p>C: Minor adverse O: Minor adverse</p> <p>Tier 2</p> <p>C: Minor adverse O: Minor adverse D: Minor adverse</p> <p>Tier 3</p> <p>C: Minor adverse O: Minor adverse D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> – Mooir Vannin Offshore Windfarm <p>Tier 3</p> <ul style="list-style-type: none"> • Cables/pipelines: <ul style="list-style-type: none"> – MaresConnect. 		
3.9.6	Electromagnetic Fields (EMF) from subsea electrical cabling	<p>Tier 1</p> <ul style="list-style-type: none"> • Offshore wind farm projects: <ul style="list-style-type: none"> – Awel y Môr Offshore Wind Farm <p>Tier 2</p> <ul style="list-style-type: none"> • Offshore wind farm projects: <ul style="list-style-type: none"> – Morgan Offshore Wind Project Generation Assets – Morecambe Offshore Windfarm Generation Assets – Morgan and Morecambe Offshore Wind Farms Transmission Assets – Mooir Vannin Offshore Windfarm. <p>Tier 3</p> <ul style="list-style-type: none"> • Cables/pipelines: <ul style="list-style-type: none"> – MaresConnect. 	<ul style="list-style-type: none"> • Development and adherence to an Offshore CMS including a CSIP. All electrical cables including array, export and inter-connector cables will be buried to depths of at least 0.5 m as informed by a CBRA (Cable Burial Risk Assessment). While burial of cables will not reduce the strength of EMF, it does increase the distance between cables and fish and shellfish receptors, thereby potentially reducing the effect on those receptors. 	O: Minor adverse
3.9.7	Introduction of artificial structures and colonisation of hard structures	<p>Tier 1</p> <ul style="list-style-type: none"> • Offshore wind farm projects: <ul style="list-style-type: none"> – Awel y Môr Offshore Wind Farm. <p>Tier 2</p> <ul style="list-style-type: none"> • Offshore wind farm projects: <ul style="list-style-type: none"> – Morgan Offshore Wind Project Generation Assets 	<ul style="list-style-type: none"> • Development of, and adherence to, an Offshore EMP throughout all phases, and actions to reduce potential for introduction of INNS. 	<p>Tier 1</p> <p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>Tier 2</p> <p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>D: Minor adverse</p> <p>Tier 3</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> - Morecambe Offshore Windfarm Generation Assets - Morgan and Morecambe Offshore Wind Farms Transmission Assets - ENI HyNet CCS project - Mooir Vannin Offshore Windfarm. <p>Tier 3</p> <ul style="list-style-type: none"> • Cables/pipelines: <ul style="list-style-type: none"> - MaresConnect. 		<p>C: Minor adverse O: Minor adverse</p>
3.9.9	Injury due to increased risk of collision with vessels (basking shark only)	<p>Tier 1</p> <ul style="list-style-type: none"> • Offshore Wind Farm projects: <ul style="list-style-type: none"> - Awel y Môr Offshore Wind Farm • Dredging projects: <ul style="list-style-type: none"> - Walney Extension pontoon/jetty dredging and disposal - Port of Barrow maintenance dredging disposal licence - Liverpool Marina Maintenance Dredging - Liverpool 2 and River Mersey approach channel dredging - Mersey channel and river maintenance dredge disposal renewal - Castletown Bay, IoM - Douglas Harbour, IoM - Conwy River - Dee River - RNLI Regional Maintenance. 	<p>An Offshore EMP will be issued to all Project vessel operators, requiring them to:</p> <ul style="list-style-type: none"> • not deliberately approach basking shark • keep vessel speed to a minimum; and • avoid abrupt changes in course or speed should basking shark approach the vessel. <p>The Offshore EMP will be adhered to at all times.</p>	<p>C: Minor adverse O: Minor adverse D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • Aggregate extraction activities: <ul style="list-style-type: none"> – Hilbre Swash aggregate extraction • Oil and gas works <ul style="list-style-type: none"> – Isle of Man Crogga Licence <p>Tier 2</p> <ul style="list-style-type: none"> • Offshore Wind Farm projects: <ul style="list-style-type: none"> – Morecambe Offshore Windfarm Generation Assets – Morgan Offshore Wind Project Generation Assets – Morgan and Morecambe Offshore Wind Farms Transmission Assets. – ENI HyNet CCS project – Moir Vannin Offshore Windfarm • Aggregates extraction activities: <ul style="list-style-type: none"> – Liverpool Bay Area 457 <p>Tier 3</p> <ul style="list-style-type: none"> • Cables and pipelines: <ul style="list-style-type: none"> – MaresConnect. 		

MONA OFFSHORE WIND PROJECT

1.2.5 Volume 2, Chapter 4: Marine mammals (APP-056)

Table 1.4: Projects, plans and activities screened into the CEA for Volume 2, Chapter 4: Marine mammals (APP-056).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
4.11.2	Injury and disturbance from elevated underwater sound during piling	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm Project Erebus White Cross <p>Tier 2</p> <ul style="list-style-type: none"> Dublin Array Offshore Wind Farm Inis Ealga Marine Energy Park Llŷr 1 Llŷr 2 Morecambe Offshore Windfarm Generation Assets Morgan and Morecambe Offshore Windfarms Transmission Assets Morgan Offshore Wind Project Generation Assets Moor Vannin North Channel Wind 1 North Channel Wind 2 North Irish Sea Array Offshore Wind Farm Project Valorous Shelmalere Offshore Wind Farm Spiorad na Mara – Offshore Wind Project Projects with no temporal information available: Arklow Bank Wind Park Phase 2, Codling Wind Park Offshore Wind Farm, North Celtic Sea Offshore Wind 	<ul style="list-style-type: none"> Implementation of initiation stage, soft start, ramp up, (primary measures); use of MMO (Marine Management Organisation), PAM (Passive Acoustic Monitoring), ADD (Acoustic Deterrent Device) (tertiary measures). Development of and adherence to an Underwater sound management strategy (Document Reference J16) that includes consideration of Noise Abatement Systems (NAS) as part of mitigation options. A commitment to considering Noise Abatement Systems (NAS) as part of mitigation options in the Underwater sound management strategy, which will be developed in accordance with the Outline underwater sound management strategy (Document Reference J16), will be made as part of a stepped strategy post consent and following the mitigation hierarchy - avoid, reduce, mitigate. 	<p>Harbour porpoise C: Minor adverse</p> <p>Bottlenose dolphin C: Moderate Adverse</p> <p>Short-beaked common dolphin C: Minor adverse</p> <p>Risso’s dolphin C: Minor adverse</p> <p>Minke whale C: Minor adverse</p> <p>Grey seal C: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<p>Farm, Oriel Windfarm Offshore Wind Farm, Project Ilen, Simply Blue Emerald</p> <p>Tier 3</p> <ul style="list-style-type: none"> • Celtic Sea Array Offshore Wind Farm • Cork offshore wind project • Bore Array • Celtic Horizon • Mac Lir • Talisk • Realt na Mara • Setanta Offshore Wind Park • Projects with no temporal information available: Blackwater Offshore Wind Farm, Braymore Point, Clogher Head Offshore Wind Farm, Codling Wind Park Extension Offshore Wind Farm, Cooley Point Offshore Wind Farm, Inis Offshore Wind Munster, MaresConnect, Project Saoirse, South Pembrokeshire Demonstration Zone, Aniar Offshore Array (Fixed), Aniar Offshore Array (Floating), Arranmore, East Celtic, Lir Offshore Array, Moneypoint Offshore One, Nomadic Offshore Wind, Machair Wind – Hybrid Energy Project, Malin Sea Wind, Haven Offshore Array Wind Farm, Péarla Offshore Wind Farm, Rian Offshore Array Phase 2, Tralee, Tulca Offshore Array Phase 2, Urban Sea, Valentia Phase 1, Valentia Phase 2, Voyage Offshore Array. 		

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
4.11.3	Injury and disturbance from pre-construction site investigation surveys	<p>Tier 1</p> <ul style="list-style-type: none"> • ESB Celtic Offshore Wind - Site Investigations off Waterford and Cork • ESB Wind Development Limited Site Investigations at Sea Stacks Offshore Wind off Dublin and Wicklow • ESB Wind Development Limited Site Investigations off Waterford and Cork Coasts - Helvick Head Offshore Wind • Mainstream, Renewable Power Ltd- Site Investigations off Co, Dublin • RWE Renewables Ireland Site Investigations for Dublin Array Offshore Wind Farm • Shelmalere Offshore Wind Farm - Site Investigations off Counties Wexford and Wicklow • Site Investigations for proposed Offshore Wind Farm, off Counties Wicklow and Dublin • Site Investigations for the proposed Kinsale Project offshore wind farm, off County Cork • Site Investigations for the proposed Sunrise Offshore Wind Farm, off Counties Dublin and Wicklow • Site Investigations for the proposed Wicklow Project offshore wind farm, off County Wicklow • SSE Renewables Celtic Sea surveys • Statkraft North Irish Sea Array (NISA) Site Investigations 	<ul style="list-style-type: none"> • Implementation of soft start and ramp up where possible (primary measures), use of MMO and PAM (tertiary measures). 	<p>Harbour porpoise C: Minor adverse</p> <p>Bottlenose dolphin C: Minor adverse</p> <p>Short-beaked common dolphin C: Minor adverse</p> <p>Risso's dolphin C: Minor adverse</p> <p>Minke whale C: Minor adverse</p> <p>Grey seal C: Minor adverse</p> <p>Harbour seal C: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> Simply Blue Energy (Kinsale) Limited surveys <p>Tier 2</p> <ul style="list-style-type: none"> Morgan Generation Assets Morecambe Offshore Windfarm Generation Assets Morgan and Morecambe Offshore Windfarms Transmission Assets. <p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> Arklow Bank Wind Park Phase 2 Codling Wind Park Llŷr Eni Hynet CCS 		
4.11.4	Injury and disturbance from underwater sound from UXO clearance	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm Project Erebus White Cross <p>Tier 2</p> <ul style="list-style-type: none"> Inis Ealga Marine Energy Park Llŷr 1 Llŷr 2 Morecambe Offshore Windfarm Generation Assets Morgan and Morecambe Offshore Windfarms Transmission Assets Morgan Offshore Wind Project Generation Assets 	<ul style="list-style-type: none"> Inclusion of low order techniques as a clearance option (primary measures); use of MMO, PAM, ADD and soft start charges (tertiary measures). 	<p>Tier 1</p> <p>Harbour Porpoise C: Moderate adverse</p> <p>Bottlenose dolphin C: Minor adverse</p> <p>Short-beaked common dolphin C: Minor adverse</p> <p>Risso's dolphin C: Minor adverse</p> <p>Minke whale C: Minor adverse</p> <p>Grey seal C: Minor adverse</p> <p>Tier 2</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • Mooir Vannin • North Channel Wind 1 • North Channel Wind 2 • Project Valorous • Shelmalere Offshore Wind Farm • Projects with no temporal information available: Codling Wind Park Offshore Wind Farm, North Celtic Sea Offshore Wind Farm, Project Ilen, Simply Blue Emerald. <p>Tier 3</p> <ul style="list-style-type: none"> • Celtic Sea Array Offshore Wind Farm • Cork offshore wind project • Projects with no temporal information available: Blackwater Offshore Wind Farm, Braymore Point, Clogher Head Offshore Wind Farm, Codling Wind Park Extension Offshore Wind Farm, Cooley Point Offshore Wind Farm, Eni Hynet CCS, Inis Offshore Wind Munster, MaresConnect, Project Saoirse, South Pembrokeshire Demonstration Zone. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> • Arklow Bank Wind Park Phase 2 • North Irish Sea Array • Oriel Offshore Wind Farm • Llŷr 		<p>Harbour Porpoise C: Minor adverse</p> <p>Bottlenose dolphin C: Minor adverse</p> <p>Short-beaked common dolphin C: Minor adverse</p> <p>Risso's dolphin C: Minor adverse</p> <p>Minke whale C: Minor adverse</p> <p>Grey seal C: Minor adverse</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>Harbour Porpoise C: Minor adverse</p> <p>Bottlenose dolphin C: Minor adverse</p> <p>Short-beaked common dolphin C: Minor adverse</p> <p>Risso's dolphin C: Minor adverse</p> <p>Minke whale C: Minor adverse</p> <p>Grey seal C: Minor adverse</p>
4.11.5	Injury and disturbance from vessel use and other (non-	Tier 1	<ul style="list-style-type: none"> • Offshore EMP with measures to minimise injury and disturbance to marine mammals 	Harbour porpoise

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
	piling) sound producing activities	<ul style="list-style-type: none"> • Awel y Môr • Project Erebus • West Anglesey Demonstration Zone tidal site • White Cross • Twin Hub <u>Tier 2</u> • Arklow Bank Wind Park Phase 2 • Codling Wind Park Offshore Wind Farm • Dublin Array Offshore Wind Farm • Inis Ealga Marine Energy Park • LIÿr 1 • LIÿr 2 • Morecambe Offshore Wind Farm Generation Asset • Morgan and Morecambe Offshore Wind Farms: Transmission Assets • Morgan Offshore Wind Project Generation Assets • Mooir Vannin • North Celtic Sea Offshore Wind Farm • North Channel Wind 1 • North Channel Wind 2 • North Irish Sea Array Offshore Wind Farm • Oriel Offshore Wind Farm • Project Valorous • Shelmalere Offshore Wind Farm • Simply Blue Emerald 	from transiting vessels (tertiary measures).	<p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>Bottlenose dolphin</p> <p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>Short-beaked common dolphin</p> <p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>Risso's dolphin</p> <p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>Minke whale</p> <p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>Grey seal</p> <p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>Harbour seal</p> <p>C: Minor adverse</p> <p>O: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • Wind Project Ilen • Projects with no temporal information available: Oriel Offshore Wind Farm, Arklow Bank Wind Park Phase 2, Simply Blue Emerald, Wind Project Ilen, North Celtic Sea Offshore Wind Farm. <p>Tier 3</p> <ul style="list-style-type: none"> • Blackwater Offshore Wind Farm • Braymore Point • Celtic Sea Array Offshore Wind Farm • Cork offshore wind project • Clogher Head Offshore Wind Farm • Codling Wind Park Extension Offshore Wind Farm • Cooley Point Offshore Wind Farm • Eni Hynet CCS • Inis Offshore Wind Munster • MaresConnect • Project Saoirse • South Pembrokeshire Demonstration Zone • Spiorad na Mara – Offshore Wind Project 		
4.11.6	Increased likelihood of Injury due to collision with vessels	<p>Tier 1</p> <ul style="list-style-type: none"> • Awel y Môr • Project Erebus • West Anglesey Demonstration Zone tidal site • White Cross • Twin Hub 	<ul style="list-style-type: none"> • Offshore EMP with measures to minimise injury to marine mammals from transiting vessels. 	<p>Tier 1</p> <p>Harbour porpoise</p> <p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>Bottlenose dolphin</p> <p>C: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<p><u>Tier 2</u></p> <ul style="list-style-type: none"> • Arklow Bank Wind Park Phase 2 • Codling Wind Park Offshore Wind Farm • Dublin Array Offshore Wind Farm • Inis Ealga Marine Energy Park • Llŷr 1 • Llŷr 2 • Morecambe Offshore Wind Farm Generation Assets • Morgan and Morecambe Offshore Wind Farms: Transmission Assets • Morgan Offshore Wind Project Generation Assets • Moir Vannin • North Channel Wind 1 • North Channel Wind 2 • North Irish Sea Array Offshore Wind Farm • Oriel Offshore Wind Farm • Project Valorous • Shelmalere Offshore Wind Farm • Oriel Offshore Wind Farm • Arklow Bank Wind Park Phase 2 • Simply Blue Emerald • Wind Project Ilen • North Celtic Sea Offshore Wind Farm • Projects with no temporal information available: Oriel Offshore Wind Farm, Arklow Bank Wind Park Phase 2, Simply 		<p>O: Minor adverse Short-beaked common dolphin C: Minor adverse O: Minor adverse Risso's dolphin C: Minor adverse O: Minor adverse Minke whale C: Minor adverse O: Minor adverse Grey seal C: Minor adverse O: Minor adverse Harbour seal C: Minor adverse O: Minor adverse <u>Tier 2</u> Harbour porpoise C: Minor adverse O: Minor adverse D: Minor adverse Bottlenose dolphin C: Minor adverse O: Minor adverse D: Minor adverse Short-beaked common dolphin C: Minor adverse O: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<p>Blue Emerald, Wind Project Ilen, North Celtic Sea Offshore Wind Farm.</p> <p>Tier 3</p> <ul style="list-style-type: none"> • MaresConnect 		<p>D: Minor adverse Risso's dolphin C: Minor adverse O: Minor adverse D: Minor adverse Minke whale C: Minor adverse O: Minor adverse D: Minor adverse Grey seal C: Minor adverse O: Minor adverse D: Minor adverse Harbour seal C: Minor adverse O: Minor adverse D: Minor adverse <u>Tier 3</u> Harbour porpoise C: Minor adverse O: Minor adverse Bottlenose dolphin C: Minor adverse O: Minor adverse Short-beaked common dolphin C: Minor adverse O: Minor adverse Risso's dolphin</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
				<p>C: Minor adverse O: Minor adverse Minke whale C: Minor adverse O: Minor adverse Grey seal C: Minor adverse O: Minor adverse Harbour seal C: Minor adverse O: Minor adverse</p>
4.11.7	Effects on marine mammals due to changes in prey availability	<p>Tier 1</p> <ul style="list-style-type: none"> • Offshore Wind Farm projects: <ul style="list-style-type: none"> – Awel y Môr Offshore Wind Farm • Dredging projects: <ul style="list-style-type: none"> – Walney Extension pontoon/jetty dredging and disposal – Port of Barrow maintenance dredging disposal licence – Liverpool Marina Maintenance Dredging – Liverpool 2 and River Mersey approach channel dredging – Mersey channel and river maintenance dredge disposal renewal – Castletown Bay, IoM 	<ul style="list-style-type: none"> • Development of, and adherence to, an Offshore EMP throughout all phases; actions to reduce potential for introduction of INNS, and development and adherence to an Offshore CMS including a CSIP 	<p>Harbour porpoise C: Minor adverse O: Minor adverse D: Minor adverse Bottlenose dolphin C: Minor adverse O: Minor adverse D: Minor adverse Short-beaked common dolphin C: Minor adverse O: Minor adverse D: Minor adverse Risso's dolphin C: Minor adverse O: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> - Douglas Harbour, IoM - Conwy River - Dee River - RNLI Regional Maintenance • Aggregates extraction activities: <ul style="list-style-type: none"> - Hilbre Swash aggregate extraction <p>Tier 2</p> <ul style="list-style-type: none"> • Offshore Wind Farm projects: <ul style="list-style-type: none"> - Morecambe Offshore Windfarm Generation Assets - Morgan Offshore Wind Project Generation Assets - Morgan and Morecambe Offshore Wind Farms Transmission Assets - ENI HyNet CCS project - Mooir Vannin Offshore Windfarm • Aggregates extraction activities: <ul style="list-style-type: none"> - Liverpool Bay Area 457 <p>Tier 3</p> <ul style="list-style-type: none"> • Cables and pipelines: <ul style="list-style-type: none"> - MaresConnect. 		<p>D: Minor adverse</p> <p>Minke whale</p> <p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>D: Minor adverse</p> <p>Grey seal</p> <p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>D: Minor adverse</p> <p>Harbour seal</p> <p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

1.2.6 Volume 2, Chapter 5: Offshore ornithology (APP-057)

Table 1.5: Projects, plans and activities screened into the CEA for Volume 2, Chapter 5: Offshore ornithology (APP-057).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
5.9.2	Disturbance and displacement from airborne noise, underwater sound, and presence of vessels and infrastructure	<p>Tier 1</p> <ul style="list-style-type: none"> • Awel y Môr Offshore Wind Farm • Erebus Floating Wind Demo • White Cross Offshore Windfarm • Rampion 2 Wind Farm • West of Orkney Windfarm • Gwynt y Môr Offshore Wind Farm • Rhyl Flats Offshore Wind Farm • Walney (3 & 4) Extension Offshore Wind Farm • West of Duddon Sands Offshore Wind Farm • Burbo Bank Extension Offshore Wind Farm • Walney 1 & 2 Offshore Wind Farms • Burbo Bank Offshore Wind Farm • Ormonde Wind Farm • Robin Rigg Offshore Wind Farm 	<ul style="list-style-type: none"> • Offshore EMP that will include measures to minimise disturbance to rafting birds from transiting vessels 	<p>Common guillemot C: Negligible adverse O: Minor adverse D: Negligible adverse</p> <p>Razorbill C: Negligible adverse O: Negligible adverse D: Negligible adverse</p> <p>Atlantic puffin C: Minor adverse O: Minor adverse D: Minor adverse</p> <p>Northern gannet C: Negligible adverse O: Negligible adverse D: Negligible adverse</p> <p>Black-legged kittiwake C: Negligible adverse O: Negligible adverse D: Negligible adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • Rampion Offshore Wind Farm • Awel y Môr Offshore Wind Farm • Erebus Floating Wind Demo • White Cross Offshore Windfarm • TwinHub (Wave Hub Floating Wind Farm) • Rampion 2 Wind Farm • West of Orkney Windfarm <p><u>Tier 2</u></p> <ul style="list-style-type: none"> • Morgan Generation Assets • Morecambe Offshore Windfarm Generation Assets • Morgan and Morecambe Offshore Wind Farms Transmission Assets • ENI Hynet – CCS • Moir Vannin Offshore Wind Farm • North Irish Sea Array Offshore Wind Farm • Codling Wind Park • Dublin Array Offshore Wind Farm • North Channel Wind 2 • Oriel Wind Farm • Arklow Bank Wind Park Phase 2 		

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • North Channel Wind 1 • Shelmalere Offshore Wind Farm • North Celtic Sea • Llyr 1 Floating Wind Farm • Llyr 2 Floating Wind Farm • Valorous Floating Offshore Wind Project • Inis Ealga Marine Energy Park • Emerald Floating Wind Project 		
5.9.3	Collision risk	<p>Tier 1</p> <ul style="list-style-type: none"> • Gwynt y Môr Offshore Wind Farm • Rhyl Flats Offshore Wind Farm • Walney (3 & 4) Extension Offshore Wind Farm • West of Duddon Sands Offshore Wind Farm • Burbo Bank Extension Offshore Wind Farm • Walney 1 & 2 Offshore Wind Farms • Burbo Bank Offshore Wind Farm • Ormonde Wind Farm • Robin Rigg Offshore Wind Farm 	<ul style="list-style-type: none"> • Increasing minimum air draught to 34 over LAT (Lowest Astronomical Tide) to reduce bird collision 	<p>Black-legged kittiwake O: Minor adverse</p> <p>Great black-backed gull O: Minor adverse</p> <p>European herring gull O: Minor adverse</p> <p>Lesser black-backed gull O: Minor adverse</p> <p>Northern gannet O: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • Rampion Offshore Wind Farm • Awel y Môr Offshore Wind Farm • West Anglesey Demonstration Zone Tidal Site (Morlais) • Holyhead Deep – tidal energy (Minesto) • Erebus Floating Wind Demo • White Cross Offshore Windfarm • TwinHub (Wave Hub Floating Wind Farm) • Rampion 2 Wind Farm • West of Orkney Windfarm <p><u>Tier 2</u></p> <ul style="list-style-type: none"> • Morgan Generation Assets • Morecambe Offshore Windfarm Generation Assets • Mooir Vannin Offshore Wind Farm • North Irish Sea Array Offshore Wind Farm • Codling Wind Park • Dublin Array Offshore Wind Farm • North Channel Wind 2 • Oriel Wind Farm 		

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • Arklow Bank Wind Park Phase 2 • North Channel Wind 1 • Shelmalere Offshore Wind Farm • North Celtic Sea Wind Farm • Llyr 1 Floating Wind Farm • Llyr 2 Floating Wind Farm • Valorous Floating Offshore Wind Project • Inis Ealga Marine Energy Park • Emerald Floating Wind Project • Project Ilen wave energy. 		
5.9.4	Combined collision risk and disturbance and displacement from airborne noise, underwater sound, and presence of vessels and infrastructure	<p>Tier 1</p> <ul style="list-style-type: none"> • Gwynt y Môr Offshore Wind Farm • Rhyl Flats Offshore Wind Farm • Walney (3 & 4) Extension Offshore Wind Farm • West of Duddon Sands Offshore Wind Farm • Burbo Bank Extension Offshore Wind Farm • Walney 1 & 2 Offshore Wind Farms • Burbo Bank Offshore Wind Farm 	<ul style="list-style-type: none"> • Increasing minimum air draught to 34 over LAT air draught to reduce bird collision 	<p>Black-legged kittiwake O: Minor adverse</p> <p>Northern gannet O: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • Ormonde Wind Farm • Robin Rigg Offshore Wind Farm • Rampion Offshore Wind Farm • Awel y Môr Offshore Wind Farm • West Anglesey Demonstration Zone Tidal Site (Morlais) • Holyhead Deep – tidal energy (Minesto) • Erebus Floating Wind Demo • White Cross Offshore Windfarm • TwinHub (Wave Hub Floating Wind Farm) • Rampion 2 Wind Farm • West of Orkney Windfarm <p><u>Tier 2</u></p> <ul style="list-style-type: none"> • Morgan Generation Assets • Morecambe Offshore Windfarm Generation Assets • Moir Vannin Offshore Wind Farm • North Irish Sea Array Offshore Wind Farm • Codling Wind Park • Dublin Array Offshore Wind Farm 		

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • North Channel Wind 2 • Oriel Wind Farm • Arklow Bank Wind Park Phase 2 • North Channel Wind 1 • Shelmalere Offshore Wind Farm • North Celtic Sea Wind Farm • Llyr 1 Floating Wind Farm • Llyr 2 Floating Wind Farm • Valorous Floating Offshore Wind Project • Inis Ealga Marine Energy Park • Emerald Floating Wind Project • Project Ilen wave energy. 		

MONA OFFSHORE WIND PROJECT

1.2.7 Volume 2, Chapter 6: Commercial fisheries (APP-058)

Table 1.6: Projects, plans and activities screened into the CEA for Volume 2, Chapter 6: Commercial fisheries (APP-058).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
6.10.2	Loss or restricted access to fishing grounds	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm West Anglesey Demonstration Zone. <p>Tier 2</p> <ul style="list-style-type: none"> Morgan Offshore Wind Project Generation Assets Morecambe Offshore Windfarm Generation Assets Moor Vannin Morgan and Morecambe Offshore Wind Farms Transmission Assets. <p>Tier 3</p> <ul style="list-style-type: none"> Five MPAs (Marine Protected Areas) 	<ul style="list-style-type: none"> Development and adherence to an offshore CMS which includes a CSIP 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). Development and adherence to an offshore CMS which includes a CSIP 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. Infrastructure spacing at a minimum of 1,400 m apart Development and adherence to a DP (Design Plan) with roughly north to south alignment of wind turbine rows Development and adherence to a DP which includes implementation of a SMZ (Scallop Mitigation Zone) over an area of core scallop grounds within the Mona Array Area. Development and adherence to an OEMP (Offshore Environmental Management Plan) which includes details of the appointment and responsibilities of a fisheries liaison officer Ongoing liaison with the fishing industry through the CFLO (Company Fisheries Liaison Officer) and FIR (Fishing Industry Representative), and adhere to good practice guidance with regards to fisheries liaison. To investigate establishing a commercial fisheries working group. Notification to fishing fleets of construction, maintenance and decommissioning activities. 	<p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<ul style="list-style-type: none"> • Use of OFLOs (Offshore Fisheries Liaison Officers) where required and appropriate • Timely and efficient distribution NtMs (Notices to Mariners). • Use of advisory clearance distances and safety zones during construction and periods of major maintenance. • Use of rolling advisory exclusion zones. • Development and adherence to an Aids to Navigation Management Plan to ensure adequate navigational markers (including lighting), in accordance with the most recent relevant industry guidance. • Development and adherence to a CMS including CSIP and details of scour protection management and cable protection management , to outline cable burial depth, cable protection and monitoring of cables. • Annual reviews for the first five years of the operations and maintenance phase, to review VMS (Vessel Monitoring System) data and landings data to identify whether there are any changes to fishing activity within the Mona Array Area. • ‘As-laid’ co-ordinates of the cable route shall be recorded and submitted to the UKHO (United Kingdom Hydrographic Office) and KIS-ORCA Service. ‘As-laid’ cables shall be marked on Admiralty Charts and fisherman’s awareness charts (paper and electronic format). • Development and adherence to a dropped objects plan. • Development and adherence to a decommissioning programme. • Development and adherence to an OEMP. • Use of guard vessels where required. 	

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
6.10.3	Interference with fishing activity	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm West Anglesey Demonstration Zone. <p>Tier 2</p> <ul style="list-style-type: none"> Morgan Offshore Wind Project Generation Assets Morecambe Offshore Windfarm Generation Assets Mooir Vannin Morgan and Morecambe Offshore Wind Farms Transmission Assets. 	<ul style="list-style-type: none"> Development and adherence to an offshore CMS which includes a CSIP 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). Development and adherence to an offshore CMS which includes a CSIP where the time delay between sequential cable installation operations (e.g. cablelay and post-lay burial), shall be minimised to as short as reasonably practicable. Infrastructure spacing at a minimum of 1,400 m apart Development and adherence to a DP with roughly north to south alignment of wind turbine rows Development and adherence to a DP which includes implementation of a SMZ over an area of core scallop grounds within the Mona Array Area. Development and adherence to an OEMP which includes details of the appointment and responsibilities of a fisheries liaison officer Ongoing liaison with the fishing industry through the CFLO and FIR, and adhere to good practice guidance with regards to fisheries liaison. To investigate establishing a commercial fisheries working group. Notification to fishing fleets of construction, maintenance and decommissioning activities. Use of OFLOs where required and appropriate Timely and efficient distribution NtMs. Use of advisory clearance distances and safety zones during construction and periods of major maintenance. Use of rolling advisory exclusion zones. 	<p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<ul style="list-style-type: none"> • Development and adherence to an Aids to Navigation Management Plan to ensure adequate navigational markers (including lighting), in accordance with the most recent relevant industry guidance. • Development and adherence to a CMS including CSIP and details of scour protection management and cable protection management, to outline cable burial depth, cable protection and monitoring of cables. • Annual reviews for the first five years of the operations and maintenance phase, to review VMS data and landings data to identify whether there are any changes to fishing activity within the Mona Array Area. • ‘As-laid’ co-ordinates of the cable route shall be recorded and submitted to the UKHO and KIS-ORCA Service. ‘As-laid’ cables shall be marked on Admiralty Charts and fisherman’s awareness charts (paper and electronic format). • Development and adherence to a dropped objects plan. • Development and adherence to a decommissioning programme. • Development and adherence to an OEMP. • Use of guard vessels where required. 	
6.10.4	Loss or damage to fishing gear due to snagging	<p>Tier 1</p> <ul style="list-style-type: none"> • Awel y Môr Offshore Wind Farm • West Anglesey Demonstration Zone. <p>Tier 2</p> <ul style="list-style-type: none"> • Morgan Offshore Wind Project Generation Assets 	<ul style="list-style-type: none"> • Development and adherence to an offshore CMS which includes a CSIP 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). • Development and adherence to an offshore CMS which includes a CSIP 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. 	<p>C: Minor adverse O: Minor adverse D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • Morecambe Offshore Windfarm Assets • Moir Vannin • Morgan and Morecambe Offshore Wind Farms Transmission Assets. 	<ul style="list-style-type: none"> • Infrastructure spacing at a minimum of 1,400 m apart • Development and adherence to a DP with roughly north to south alignment of wind turbine rows • Development and adherence to a DP which includes implementation of a SMZ over an area of core scallop grounds within the Mona Array Area. • Development and adherence to an OEMP which includes details of the appointment and responsibilities of a fisheries liaison officer • Ongoing liaison with the fishing industry through the CFLO and FIR, and adhere to good practice guidance with regards to fisheries liaison. • To investigate establishing a commercial fisheries working group. • Notification to fishing fleets of construction, maintenance and decommissioning activities • Use of OFLOs where required and appropriate. • Timely and efficient distribution NtMs. • Use of advisory clearance distances and safety zones during construction and periods of major maintenance. • Use of rolling advisory exclusion zones. • Development and adherence to an Aids to Navigation Management Plan to ensure adequate navigational markers (including lighting), in accordance with the most recent relevant industry guidance. • Development and adherence to a CMS including CSIP and details of scour protection management and cable protection management , to outline cable burial depth, cable protection and monitoring of cables. • Annual reviews for the first five years of the operations and maintenance phase, to review VMS data and landings 	

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<p>data to identify whether there are any changes to fishing activity within the Mona Array Area.</p> <ul style="list-style-type: none"> • ‘As-laid’ co-ordinates of the cable route shall be recorded and submitted to the UKHO and KIS-ORCA Service. ‘As-laid’ cables shall be marked on Admiralty Charts and fisherman’s awareness charts (paper and electronic format). • Development and adherence to a dropped objects plan. • Development and adherence to a decommissioning programme. • Development and adherence to an OEMP. • Use of guard vessels where required. 	
6.10.5	Potential impacts on commercially important fish and shellfish stocks	<p>Tier 1</p> <ul style="list-style-type: none"> • Offshore Wind Farm projects: <ul style="list-style-type: none"> – Awel y Môr Offshore Wind Farm • Dredging projects: <ul style="list-style-type: none"> – Walney Extension pontoon/jetty dredging and disposal – Port of Barrow maintenance dredging disposal licence – Liverpool Marina Maintenance Dredging – Liverpool 2 and River Mersey approach channel dredging – Mersey channel and river maintenance 	<ul style="list-style-type: none"> • Development of, and adherence to, an Offshore EMP throughout all phases; actions to reduce potential for introduction of INNS, and development and adherence to an Offshore CMS including a CSIP 	<p>C: Negligible to minor adverse O: Negligible to minor adverse D: Negligible to minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<p>dredge disposal renewal</p> <ul style="list-style-type: none"> - Castletown Bay, IoM - Douglas Harbour, IoM - Conwy River - Dee River - RNLI Regional Maintenance <p>• Aggregates extraction activities:</p> <ul style="list-style-type: none"> - Hilbre Swash aggregate extraction <p>Tier 2</p> <p>• Offshore Wind Farm projects:</p> <ul style="list-style-type: none"> - Morecambe Offshore Windfarm Generation Assets - Morgan Offshore Wind Farm - Morgan and Morecambe Offshore Wind Farms Transmission Assets - ENI HyNet CCS project - Mooir Vannin Offshore Windfarm <p>• Aggregates extraction activities:</p>		

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> - Liverpool Bay Area 457 <u>Tier 3</u> • Cables and pipelines: <ul style="list-style-type: none"> - MaresConnect - Wales-Ireland Interconnector Cable 		

MONA OFFSHORE WIND PROJECT

1.2.8 Volume 2, Chapter 7: Shipping and navigation (APP-059)

Table 1.7: Projects, plans and activities screened into the CEA for Volume 2, Chapter 7: Shipping and navigation (APP-059).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
7.11.2	Impact on recognised sea lanes essential to international navigation.	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm. <p>Tier 2</p> <ul style="list-style-type: none"> Morgan Generation Assets Morecambe Generation Assets Morgan and Morecambe Transmission Assets Moor Vannin Offshore Wind Farm. <p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> IoM-UK Interconnector Microsoft Wales-Ireland ENI Hynet CCS. 	<ul style="list-style-type: none"> Promulgation (including Notice to Mariners). Marking and charting. Vessel Traffic Management Plan. Boundary changes. 	<p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>D: Minor adverse</p>
7.11.3	Impact to commercial operators including strategic routes and lifeline ferries.	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm. <p>Tier 2</p> <ul style="list-style-type: none"> Morgan Generation Assets Morecambe Generation Assets Morgan and Morecambe Transmission Assets Moor Vannin Offshore Wind Farm. <p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p>	<ul style="list-style-type: none"> Promulgation (including Notice to Mariners). Marking and charting. Vessel Traffic Management Plan. Boundary changes. 	<p>IoMSPC (Isle of Man Steam Packet Company)</p> <p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>D: Minor adverse</p> <p>Stena Line</p> <p>C: Moderate adverse</p> <p>O: Moderate adverse</p> <p>D: Moderate adverse</p> <p>Seatruck</p> <p>C: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> IoM-UK Interconnector Microsoft Wales-Ireland ENI Hynet CCS. 		<p>O: Minor adverse D: Minor adverse Cargo/tanker C: Moderate adverse O: Moderate adverse D: Moderate adverse</p>
7.11.4	Impact to adverse weather routeing.	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm. <p>Tier 2</p> <ul style="list-style-type: none"> Morgan Generation Assets Morecambe Generation Assets Morgan and Morecambe Transmission Assets Moor Vannin Offshore Wind Farm. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> IoM-UK Interconnector Microsoft Wales-Ireland ENI Hynet CCS. 	<ul style="list-style-type: none"> Promulgation (including Notice to Mariners). Marking and charting. Vessel Traffic Management Plan. Boundary changes. 	<p>IoMSPC C: Moderate adverse O: Moderate adverse D: Moderate adverse Stena Line C: Moderate adverse O: Moderate adverse D: Moderate adverse Seatruck C: Minor adverse O: Minor adverse D: Minor adverse Cargo/tanker C: Minor adverse O: Minor adverse D: Minor adverse</p>
7.11.5	Impact on access to ports and harbours.	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm. <p>Tier 2</p> <ul style="list-style-type: none"> Morgan Generation Assets Morecambe Generation Assets 	<ul style="list-style-type: none"> Promulgation (including Notice to Mariners). Marking and charting. Vessel Traffic Management Plan. CBRA. 	<p>C: Minor adverse O: Minor adverse D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> Morgan and Morecambe Transmission Assets Moor Vannin Offshore Wind Farm. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> IoM-UK Interconnector Microsoft Wales-Ireland ENI Hynet CCS. 	<ul style="list-style-type: none"> Boundary changes 	
7.11.6	Impact on emergency response capability due to increased incident rates and reduced access for SAR responders.	<p><u>Tier 1</u></p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm. <p><u>Tier 2</u></p> <ul style="list-style-type: none"> Morgan Generation Assets Morecambe Generation Assets Morgan and Morecambe Transmission Assets Moor Vannin Offshore Wind Farm. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> IoM-UK Interconnector Microsoft Wales-Ireland ENI Hynet CCS. 	<ul style="list-style-type: none"> ERCoP (Emergency Response and Cooperation Plan)/Marine Pollution Plan/exercises. Lines of orientation. Wind turbine spacing. Layout plan. Buoyed construction area. Boundary changes. 	<p>C: Minor adverse O: Minor adverse D: Minor adverse</p>
7.11.7	Impact on vessel to vessel collision.	<p><u>Tier 1</u></p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm. <p><u>Tier 2</u></p> <ul style="list-style-type: none"> Morgan Generation Assets Morecambe Generation Assets 	<ul style="list-style-type: none"> Promulgation (including Notice to Mariners). Marking and charting. Buoyed construction area. Safety zones. 	<p>C: Moderate adverse O: Moderate adverse D: Moderate adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • Morgan and Morecambe Transmission Assets • Moir Vannin Offshore Wind Farm. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> • IoM-UK Interconnector • Microsoft Wales-Ireland • ENI Hynet CCS. 	<ul style="list-style-type: none"> • Guard vessels. • Fisheries liaison • ERCoP/Marine Pollution Plan/exercises. • Lines of orientation. • Wind turbine spacing. • Vessel Traffic Management Plan. • Boundary changes. 	
7.11.8	Impact on allision (contact) risk to vessels.	<p><u>Tier 1</u></p> <ul style="list-style-type: none"> • Awel y Môr Offshore Wind Farm. <p><u>Tier 2</u></p> <ul style="list-style-type: none"> • Morgan Generation Assets • Morecambe Generation Assets • Morgan and Morecambe Transmission Assets • Moir Vannin Offshore Wind Farm. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> • IoM-UK Interconnector • Microsoft Wales-Ireland • ENI Hynet CCS. 	<ul style="list-style-type: none"> • Promulgation (including Notice to Mariners). • Marking and charting. • Buoyed construction area. • Blade clearance. • Guard vessels. • Safety zones. • Fisheries liaison. • ERCoP/Marine Pollution Plan/exercises. • Lines of orientation. • Wind turbine spacing. • Vessel Traffic Management Plan. • Boundary changes. 	<p>C: Moderate adverse O: Moderate adverse D: Moderate adverse</p>
7.11.9	Impact on marine navigation, communications and position fixing.	<p><u>Tier 1</u></p> <ul style="list-style-type: none"> • Awel y Môr Offshore Wind Farm. <p><u>Tier 2</u></p> <ul style="list-style-type: none"> • Morgan Generation Assets • Morecambe Generation Assets 	<ul style="list-style-type: none"> • Lines of orientation. • Wind turbine spacing. • Buoyed construction area. • Boundary changes 	<p>C: Minor adverse O: Minor adverse D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • Morgan and Morecambe Transmission Assets • Moir Vannin Offshore Wind Farm. 		
7.11.10	Impact on recreational craft passages and safety.	<p>Tier 1</p> <ul style="list-style-type: none"> • Awel y Môr Offshore Wind Farm. <p>Tier 2</p> <ul style="list-style-type: none"> • Morgan Generation Assets • Morecambe Generation Assets • Morgan and Morecambe Transmission Assets • Moir Vannin Offshore Wind Farm. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> • IoM-UK Interconnector • Microsoft Wales-Ireland • ENI Hynet CCS. 	<ul style="list-style-type: none"> • Promulgation (including Notice to Mariners). • Blade clearance. • Lines of orientation. • Wind turbine spacing. • Boundary changes. 	<p>C: Minor adverse O: Minor adverse D: Minor adverse</p>
7.11.11	Impact on snagging risk to vessel anchor and fishing gear.	<p>Tier 1</p> <ul style="list-style-type: none"> • Awel y Môr Offshore Wind Farm. <p>Tier 2</p> <ul style="list-style-type: none"> • Morgan Generation Assets • Morecambe Generation Assets • Morgan and Morecambe Transmission Assets • Moir Vannin Offshore Wind Farm. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p>	<ul style="list-style-type: none"> • Promulgation (including Notice to Mariners). • Safety zones. • Guard vessels. • Fisheries liaison. • ERCoP/Marine Pollution Plan/exercises. • CBRA. • Boundary changes. 	<p>C: Minor adverse O: Minor adverse D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • IoM-UK Interconnector • Microsoft Wales-Ireland • ENI Hynet CCS. 		

MONA OFFSHORE WIND PROJECT

1.2.9 Volume 2, Chapter 8: Seascape and visual resources (APP-060)

Table 1.8: Projects, plans and activities screened into the CEA for Volume 2, Chapter 8: Seascape and visual resources (APP-060).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
8.11.2	Seascape fabric (within Mona Array Area straddling parts of SSZ (Seascape Sensitivity Zone) 2 and SSZ 5)	<p>Tier 1</p> <p>Existing offshore wind farms:</p> <ul style="list-style-type: none"> Northwest England cluster North Wales cluster Robin Rigg. <p>Offshore wind farms under construction, permitted and submitted for planning approval:</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm <p>Tier 2</p> <p>Proposed offshore wind farms:</p> <ul style="list-style-type: none"> Morgan Offshore Wind Project Generation Assets Morecambe Offshore Wind Farm Generation Assets Mooir Vannin Offshore Wind Farm Morgan and Morecambe offshore wind farm transmission assets <p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> Cair Vie Onshore Wind Farm Foel Fach Onshore Wind Farm Royal Seaforth Dock. 	<ul style="list-style-type: none"> Turbines painted grey 	<p><u>Tier 1</u></p> <p>C: Negligible to minor adverse (not significant)</p> <p>O: Minor adverse (not significant)</p> <p>D: Negligible to minor adverse (not significant)</p> <p><u>Tier 2</u></p> <p>C: Negligible adverse (not significant)</p> <p>O: Negligible adverse (not significant)</p> <p>D: Negligible adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>C: Negligible adverse (not significant)</p> <p>O: Negligible adverse (not significant)</p> <p>D: Negligible adverse (not significant)</p>
8.11.3	Landscape – aesthetic aspects and overall character Eryri National Park No potential for significant additional cumulative landscape effects to arise outside nationally designated areas.	<p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> Cair Vie Onshore Wind Farm Foel Fach Onshore Wind Farm Royal Seaforth Dock. 		<p><u>Tier 1</u></p> <p>C: Negligible to minor adverse (not significant)</p> <p>O: Negligible to minor adverse (not significant)</p> <p>D: Negligible to minor adverse (not significant)</p> <p><u>Tier 2</u></p> <p>C: Moderate adverse (not significant)</p> <p>O: Moderate adverse (not significant)</p> <p>D: Moderate adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>C: Moderate adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
8.11.3	<p>Landscape – aesthetic aspects and overall character</p> <p>Anglesey AONB (Area of Outstanding Natural Beauty)</p> <p>No potential for significant additional cumulative landscape effects to arise outside nationally designated areas.</p>			<p>O: Moderate adverse (not significant)</p> <p>D: Moderate adverse (not significant)</p> <hr/> <p>C: Negligible to minor adverse (not significant)</p> <p>O: Negligible to minor adverse (not significant)</p> <p>D: Negligible to minor adverse (not significant)</p>
8.11.3	<p>Landscape – aesthetic aspects and overall character</p> <p>Clwydian Range and Dee Valley NL (National Landscape)</p> <p>No potential for significant additional cumulative landscape effects to arise outside nationally designated areas.</p>			<p><u>Tier 1</u></p> <p>C: Negligible to minor adverse (not significant)</p> <p>O: Negligible to minor adverse (not significant)</p> <p>D: Negligible to minor adverse (not significant)</p> <p><u>Tier 2</u></p> <p>C: Negligible adverse (not significant)</p> <p>O: Negligible adverse (not significant)</p> <p>D: Negligible adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>C: Negligible adverse (not significant)</p> <p>O: Negligible adverse (not significant)</p> <p>D: Negligible adverse (not significant)</p>
8.11.3	<p>Landscape – qualifying characteristics of World</p>			<p><u>Tier 1</u></p> <p>C: Negligible to minor adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
	Heritage Sites and Registered Historic Parks and Gardens			<p>O: Negligible to minor adverse (not significant) D: Negligible to minor adverse (not significant)</p> <p><u>Tier 2</u></p> <p>C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p>
8.11.3	<p>Seascape – aesthetic aspects and overall character</p> <p>MCA 38 Irish Sea South – area adjacent to Mona Array Area</p> <p>No potential for significant additional cumulative effects to arise on other seascape units in the SLVIA (Seascape and Landscape Visual Impact Assessment) study area.</p>			<p><u>Tier 1</u></p> <p>C: Negligible to minor adverse (not significant) O: Minor adverse (not significant) D: Negligible to minor adverse (not significant)</p> <p><u>Tier 2</u></p> <p>C: Moderate adverse (not significant) O: Moderate to major adverse (significant during operation) D: Moderate adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>C: Moderate adverse (not significant) O: Moderate to major adverse (significant during operation) D: Moderate adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
8.11.3	<p>Seascape – aesthetic aspects and overall character</p> <p>SSZ 2 North East Wales Offshore – area occupied by/adjacent to Mona Array Area</p> <p>No potential for significant additional cumulative effects to arise on other seascape units in the SLVIA study area.</p>			<p>Tier 1</p> <p>C: Negligible to minor adverse (not significant)</p> <p>O: Minor adverse (not significant)</p> <p>D: Negligible to minor adverse (not significant)</p> <p>Tier 2</p> <p>C: Moderate adverse (not significant)</p> <p>O: Moderate to major adverse (significant during operation)</p> <p>D: Moderate adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>C: Moderate adverse (not significant)</p> <p>O: Moderate to major adverse (significant during operation)</p> <p>D: Moderate adverse (not significant)</p>
8.11.3	<p>Seascape – aesthetic aspects and overall character</p> <p>SSZ 4 North Wales and North Anglesey Offshore – area adjacent to Mona Array Area</p> <p>No potential for significant additional cumulative effects to arise on other seascape units in the SLVIA study area.</p>			<p>Tier 1</p> <p>C: Negligible to minor adverse (not significant)</p> <p>O: Minor adverse (not significant)</p> <p>D: Negligible to minor adverse (not significant)</p> <p>Tier 2</p> <p>C: Moderate adverse (not significant)</p> <p>O: Moderate to major adverse (significant during operation)</p> <p>D: Moderate adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>C: Moderate adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
				<p>O: Moderate to major adverse (significant during operation) D: Moderate adverse (not significant)</p>
8.11.3	<p>Seascape – aesthetic aspects and overall character</p> <p>SSZ 5 North Wales and Anglesey Outer Offshore – area occupied by/adjacent to Mona Array Area</p> <p>No potential for significant additional cumulative effects to arise on other seascape units in the SLVIA study area.</p>			<p><u>Tier 1</u></p> <p>C: Negligible to minor adverse (not significant) O: Minor adverse (not significant) D: Negligible to minor adverse (not significant)</p> <p><u>Tier 2</u></p> <p>C: Moderate adverse (not significant) O: Moderate to major adverse (significant during operation) D: Moderate adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>C: Moderate adverse (not significant) O: Moderate to major adverse (significant during operation) D: Moderate adverse (not significant)</p>
8.11.4	<p>Visual receptors – national trails – Wales Coast Path</p>			<p><u>Tier 1</u></p> <p>C: Minor to moderate adverse (not significant) O: Moderate adverse (not significant) D: Minor to moderate adverse (not significant)</p> <p><u>Tier 2</u></p> <p>C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
				<p>C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p>
8.11.4	Visual receptors – national trails – Offa’s Dyke Path			<p><u>Tier 1</u> C: Minor adverse (not significant) O: Minor to moderate adverse (not significant) D: Minor adverse (not significant)</p> <p><u>Tier 2</u> C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u> C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p>
8.11.4	Visual receptors – Isle of Man trails – Raad ny Foillan Coastal Path.			<p><u>Tier 1</u> C: Negligible to minor adverse (not significant) O: Negligible to minor adverse (not significant) D: Negligible to minor adverse (not significant)</p> <p><u>Tier 2</u> C: Minor adverse (not significant) O: Minor to moderate adverse (not significant) D: Minor adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u> C: Minor adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
8.11.4	Visual receptors – main settlement seafronts/popular destinations – Benllech, Anglesey			<p>O: Minor to moderate adverse (not significant) D: Minor adverse (not significant)</p> <hr/> <p><u>Tier 1</u> C: Minor to moderate adverse (not significant) O: Moderate adverse (not significant) D: Minor to moderate adverse (not significant)</p> <p><u>Tier 2</u> C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u> C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p>
8.11.4	Visual receptors – main settlement seafronts/popular destinations – Llandudno.			<p><u>Tier 1</u> C: Minor adverse (not significant) O: Minor to moderate adverse (not significant) D: Minor adverse (not significant)</p> <p><u>Tier 2</u> C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u> C: Negligible adverse (not significant) O: Negligible adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
8.11.4	Visual receptors – main settlement seafronts/popular destinations – Abergele, Rhyl, Prestatyn.			<p>D: Negligible adverse (not significant)</p> <hr/> <p><u>Tier 1</u> C: Negligible to minor adverse (not significant) O: Negligible to minor adverse (not significant) D: Negligible to minor adverse (not significant)</p> <p><u>Tier 2</u> C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u> C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p>
8.11.4	Visual receptors – main settlement seafronts/popular destinations – Blackpool.			<p>C: Negligible to minor adverse (not significant) O: Negligible to minor adverse (not significant) D: Negligible to minor adverse (not significant)</p>
8.11.4	Visual receptors – main settlement seafronts/popular destinations – Douglas and Laxey			<p><u>Tier 1</u> C: Negligible to minor adverse (not significant) O: Negligible to minor adverse (not significant) D: Negligible to minor adverse (not significant)</p> <p><u>Tier 2</u> C: Minor adverse (not significant) O: Minor to moderate adverse (not significant) D: Minor adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
				<p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S_D3_18)</u> C: Minor adverse (not significant) O: Minor to moderate adverse (not significant) D: Minor adverse (not significant)</p>
8.11.4	Visual receptors – main coastal roads and railways (North Wales) – A547 and A55 North Wales Expressway, mainline railway between Manchester/Liverpool and Holyhead.			<p><u>Tier 1</u> C: Negligible to minor adverse (not significant) O: Negligible to minor adverse (not significant) D: Negligible to minor adverse (not significant)</p> <p><u>Tier 2</u> C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S_D3_18)</u> C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p>
8.11.4	Visual receptors – Manx Electric Railway, Isle of Man			<p>C: Negligible to minor adverse (not significant) O: Minor adverse (not significant) D: Negligible to minor adverse (not significant)</p>
8.11.4	Visual receptors – main ferry routes – Liverpool to Douglas.			<p><u>Tier 1</u> C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p> <p><u>Tier 2</u> C: Moderate adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
				<p>O: Moderate to major adverse (significant during operation)</p> <p>D: Moderate adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S_D3_18)</u></p> <p>C: Moderate adverse (not significant)</p> <p>O: Moderate to major adverse (significant during operation)</p> <p>D: Moderate adverse (not significant)</p>
8.11.4	Visual receptors – main ferry routes – Liverpool to Dublin.			<p><u>Tier 1</u></p> <p>C: Minor adverse (not significant)</p> <p>O: Moderate adverse (not significant)</p> <p>D: Minor adverse (not significant)</p> <p><u>Tier 2</u></p> <p>C: Negligible adverse (not significant)</p> <p>O: Negligible adverse (not significant)</p> <p>D: Negligible adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S_D3_18)</u></p> <p>C: Negligible adverse (not significant)</p> <p>O: Negligible adverse (not significant)</p> <p>D: Negligible adverse (not significant)</p>
8.11.4	Representative Cumulative VP (Viewpoint) 3 Mynydd Eilian (Anglesey NL and Wales Coast Path).			<p><u>Tier 1</u></p> <p>C: Minor to moderate adverse (not significant)</p> <p>O: Moderate adverse (not significant)</p> <p>D: Minor to moderate adverse (not significant)</p> <p><u>Tier 2</u></p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
				<p>C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S_D3_18)</u></p> <p>C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p>
8.11.4	Representative Cumulative VP 7 Great Orme's Head, Llandudno (Y Gogarth/Great Orme Country Park).			<p><u>Tier 1</u></p> <p>C: Minor to moderate adverse (not significant) O: Moderate adverse (not significant) D: Minor to moderate adverse (not significant)</p> <p><u>Tier 2</u></p> <p>C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S_D3_18)</u></p> <p>C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p>
8.11.4	Representative Cumulative VP 15 Blackpool North Pier			<p>C: Negligible to minor adverse (not significant) O: Negligible to minor adverse (not significant) D: Negligible to minor adverse (not significant)</p>
8.11.4	Representative Cumulative VP 19 Douglas Head, Isle of			<p><u>Tier 1</u></p> <p>C: Negligible to minor adverse (not significant) O: Negligible to minor adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
	Man (Raad ny Foillan Coastal Path)			<p>D: Negligible to minor adverse (not significant)</p> <p><u>Tier 2</u></p> <p>C: Minor adverse (not significant)</p> <p>O: Minor to moderate adverse (not significant)</p> <p>D: Minor adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S_D3_18)</u></p> <p>C: Minor adverse (not significant)</p> <p>O: Minor to moderate adverse (not significant)</p> <p>D: Minor adverse (not significant)</p>
8.11.4	Representative Cumulative VP 28 Penmon Point (Anglesey NL and Wales Coast Path)			<p><u>Tier 1</u></p> <p>C: Minor to moderate adverse (not significant)</p> <p>O: Moderate adverse (not significant)</p> <p>D: Minor to moderate adverse (not significant)</p> <p><u>Tier 2</u></p> <p>C: Negligible adverse (not significant)</p> <p>O: Negligible adverse (not significant)</p> <p>D: Negligible adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S_D3_18)</u></p> <p>C: Negligible adverse (not significant)</p> <p>O: Negligible adverse (not significant)</p> <p>D: Negligible adverse (not significant)</p>
8.11.5	All impact categories All landscape and seascape receptors			<p><u>Tier 3</u></p> <p>C: Negligible adverse (not significant)</p> <p>O: Negligible adverse (not significant)</p> <p>D: Negligible adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
8.11.6	<p>Isle of Anglesey National Landscape special quality: Expansive views</p> <p>Note: The Mona Onshore Substation is not visible from the Isle of Anglesey National landscape and this assessment refers to the Mona offshore infrastructure only.</p>			<p>Tier 1 C: Minor to moderate adverse (not significant) O: Minor to moderate adverse (not significant) D: Minor to moderate adverse (not significant)</p> <p>Tier 2 C: Minor adverse (not significant) O: Moderate adverse (not significant) D: Minor adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u> C: Minor adverse (not significant) O: Moderate adverse (not significant) D: Minor adverse (not significant)</p>
8.11.6	<p>Isle of Anglesey National Landscape, special quality: Peace and tranquillity</p> <p>Note: The Mona Onshore Substation is not visible from the Isle of Anglesey National landscape and this assessment refers to the Mona offshore infrastructure only.</p>			<p>Tier 1 C: Minor to moderate adverse (not significant) O: Minor to moderate adverse (not significant) D: Minor to moderate adverse (not significant)</p> <p>Tier 2 C: Minor adverse (not significant) O: Moderate adverse (not significant) D: Minor adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u> C: Minor adverse (not significant) O: Moderate adverse (not significant) D: Minor adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
8.11.6	Clwydian Range and Dee Valley National Landscape, special quality: Tranquillity			<p>Tier 1</p> <p>C: Negligible to minor adverse (not significant)</p> <p>O: Negligible to minor adverse (not significant)</p> <p>D: Negligible to minor adverse (not significant)</p> <p>Tier 2</p> <p>C: Negligible to minor adverse (not significant)</p> <p>O: Minor adverse (not significant)</p> <p>D: Negligible to minor adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>C: Negligible to minor adverse (not significant)</p> <p>O: Minor adverse (not significant)</p> <p>D: Negligible to minor adverse (not significant)</p>
8.11.6	Clwydian Range and Dee Valley National Landscape, special quality: Remoteness and wildness, space and freedom			<p>Tier 1</p> <p>C: Negligible to minor adverse (not significant)</p> <p>O: Negligible to minor adverse (not significant)</p> <p>D: Negligible to minor adverse (not significant)</p> <p>Tier 2</p> <p>C: Negligible to minor adverse (not significant)</p> <p>O: Minor adverse (not significant)</p> <p>D: Negligible to minor adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>C: Negligible to minor adverse (not significant)</p> <p>O: Minor adverse (not significant)</p> <p>D: Negligible to minor adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
8.11.6	<p>Clwydian Range and Dee Valley National Landscape, special quality: Access, recreation and freedom (Offa's Dyke Path)</p>			<p>C: Minor adverse (not significant) O: Minor adverse (not significant) D: Minor adverse (not significant)</p>
8.11.6	<p>Eryri National Park, special quality: Tranquillity and solitude – peaceful areas Note: The Mona Onshore Substation SLVIA does not include the Eryri National Park and this assessment refers to the Mona offshore infrastructure only.</p>			<p><u>Tier 1</u> C: Minor to moderate adverse (not significant) O: Minor to moderate adverse (not significant) D: Minor to moderate adverse (not significant)</p> <p><u>Tier 2</u> C: Minor adverse (not significant) O: Moderate adverse (not significant) D: Minor adverse (not significant)</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u> C: Minor adverse (not significant) O: Moderate adverse (not significant) D: Minor adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

1.2.10 Volume 2, Chapter 9: Marine archaeology (APP-061)

Table 1.9: Projects, plans and activities screened into the CEA for Volume 2, Chapter 9: Marine archaeology (APP-061).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
9.10.2	Sediment disturbance and deposition leading to indirect impacts on marine archaeology receptors	<p>Tier 2</p> <ul style="list-style-type: none"> Morgan and Morecambe Transmission Assets. <p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> MaresConnect Microsoft Wales-Ireland. 	<ul style="list-style-type: none"> Avoidance where possible; Archaeological Exclusion Zones; Preconstruction marine geophysical surveys and archaeological review; WSI (Written Scheme of Investigation) and PAD (Protocol for Archaeological Discoveries); review and agreement of the WSI and PAD and review and agreement of the AEZs Archaeological Exclusion Zones) by HE (Historic England) and Cadw. 	<p>C: Minor adverse O: Minor adverse D: Minor adverse</p>
<p>N/A</p> <p>As presented in the Review of Cumulative Effects Assessment and In-Combination Assessment (S_D3_18)</p>	<p>Direct damage to marine archaeology receptors (e.g. wrecks, debris, submerged prehistoric receptors (palaeolandscapes and associated archaeological receptors))</p>	<p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> Tier 3 <ul style="list-style-type: none"> MaresConnect Microsoft Wales-Ireland. 	<ul style="list-style-type: none"> Avoidance where possible; Archaeological Exclusion Zones; Preconstruction marine geophysical surveys and archaeological review; WSI (Written Scheme of Investigation) and PAD (Protocol for Archaeological Discoveries); review and agreement of the WSI and PAD and review and agreement of the AEZs Archaeological Exclusion Zones) by HE (Historic England) and Cadw. 	<p>C: Minor adverse O: Minor adverse D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

1.2.11 Volume 2, Chapter 10: Other sea users (APP-062)

Table 1.10: Projects, plans and activities screened into the CEA for Volume 2, Chapter 10: Other sea users (APP-062).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
10.11.1	Displacement of recreational activities	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr <p>Tier 2</p> <ul style="list-style-type: none"> Morgan Generation Assets Morecambe Offshore Windfarm Generation Assets Morgan and Morecambe Offshore Wind Farms Transmission Assets Mooir Vannin Eni Hynet – Carbon Capture Project. <p>Tier 3</p> <ul style="list-style-type: none"> MaresConnect Morecambe Net Zero Cluster. <p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> IoM-UK Interconnector Microsoft Wales-Ireland. 	<ul style="list-style-type: none"> Promulgation of information advising on the nature, timing and location of activities, including through Notices to Mariners, safety zones. 	O: Minor adverse
10.11.2	Interference with the performance of REWS (Radar Early Warning Systems) located on oil and gas platforms	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr <p>Tier 2</p> <ul style="list-style-type: none"> Morgan Generation Assets Morecambe Offshore Windfarm Generation Assets. 	<ul style="list-style-type: none"> None. 	O: Minor adverse

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> • IoM-UK Interconnector • Microsoft Wales-Ireland. 		
10.11.3	Effect of rerouted traffic on REWS alarm rates	<p><u>Tier 2</u></p> <ul style="list-style-type: none"> • Morgan Generation Assets. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> • IoM-UK Interconnector • Microsoft Wales-Ireland. 	<ul style="list-style-type: none"> • None. 	O: Minor adverse

MONA OFFSHORE WIND PROJECT

1.2.12 Volume 3, Chapter 1: Geology, hydrogeology and ground conditions (APP-064)

Table 1.11: Projects, plans and activities screened into the CEA for Volume 3, Chapter 1: Geology, hydrogeology and ground conditions (APP-064).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
1.10.2	Alteration to groundwater quantity or quality in the glacial till superficial aquifer (Secondary undifferentiated)	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind farm (onshore infrastructure) Major Development: 40/2017/1232 	<ul style="list-style-type: none"> Outline CoCP (Code of Construction Practice) 	<p>C: Minor adverse O: Minor adverse D: Minor adverse</p>
1.10.3	Alteration to groundwater quantity or quality in the bedrock aquifers of the Ffernant Formation and Warwickshire Group (Secondary A aquifers).	<ul style="list-style-type: none"> Major Development: 46/2021/0159 Major Development 40/2021/0309 Major Development 0/42900 Major Development: 0/43877 	<ul style="list-style-type: none"> None 	<p>C: Minor adverse O: Minor adverse D: Minor adverse</p>
1.10.4	Deterioration in groundwater quality as a result of accidental release or spillage of potentially polluting substances, during the construction and decommissioning phase.	<ul style="list-style-type: none"> Major Development: 0/44621 Major Development: 0/47217 Major Development: 0/49141 Major Development: 0/50854 Major Development: 0/48393 	<ul style="list-style-type: none"> Measures within the Outline CoCP. 	<p>C: Negligible adverse</p>
1.10.5	Deterioration of groundwater quality in the glacial till aquifer by the disturbance and mobilisation of existing areas of contamination associated with recent or historical land-use.	<ul style="list-style-type: none"> MaresConnect St. Asaph Solar Farm Major Development 31/2023/0525 (NGET (National Grid Electricity Transmission)) NGET – overhead lines NGET – Permitted development 	<ul style="list-style-type: none"> Construction Method Statement - Piling risk assessment for deep foundations. CoCP – Discovery strategy for contamination 	<p>C: Negligible adverse</p>
1.10.6	Deterioration in groundwater quality in bedrock aquifers through the disturbance and mobilisation of existing	<p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> Major Development: 46/2024/1200/PF. 	<ul style="list-style-type: none"> Construction Method Statement - Piling risk assessment for deep foundations. CoCP – Discovery strategy for contamination 	<p>C: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
	areas of contaminated land associated with recent or historical land -use.			

MONA OFFSHORE WIND PROJECT

1.2.13 Volume 3, Chapter 2: Hydrology and flood risk (APP-065)

Table 1.12: Projects, plans and activities screened into the CEA for Volume 3, Chapter 2: Hydrology and flood risk (APP-065).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
2.9.2	The impact of increased flood risk arising from additional surface water runoff	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm (onshore infrastructure) Major Development 40/2017/1232 Major Development 46/2021/0159 . <p>Tier 3</p> <ul style="list-style-type: none"> St Asaph Solar Farm Major Development 31/2023/0525 (NGET - extension) NGET – overhead lines NGET – Permitted development. <p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> Major Development: 46/2024/1200/PF. 	<ul style="list-style-type: none"> Outline CoCP The Mona Onshore Cable Corridor, Mona 400 kV Grid Connection Cable Corridor and the construction site accesses will be designed to minimise land take and to avoid, where possible, impacts on existing drainage networks and features All major crossings (such as major roads and rail crossings) will be undertaken using trenchless techniques The haul road will be constructed from an engineered fill, with geotextile layers, the material will be granular and semi-permeable of an appropriate standard as documented in the Outline Construction Method Statement (REP2-068) and appended to the Outline CoCP The diversion of the ordinary watercourse at the Onshore Substation will be appropriately designed to ensure the existing watercourse capacity is maintained (i.e. conveyance of existing flows without increasing fluvial flood risk upstream) as documented in the Outline Operational Drainage Management Strategy (APP-231) A pre-construction drainage scheme will be designed for both the Mona Onshore Cable Corridor and Onshore Substation work sites as documented in the Outline Construction Surface Water and Drainage Management Plan (APP-218) and appended to the Outline CoCP Preparation of a detailed CoCP to ensure the effective management of environmental impacts during the construction phase of onshore and intertidal elements of the Mona Offshore Wind Project. The detailed CoCP will be in general accordance with the Outline CoCP within 	C: Minor adverse

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<p>the DCO application (REP2-038) and include regulatory guidance and industry best practice guidance including:</p> <ul style="list-style-type: none"> - A detailed Construction Surface Water Drainage Management Plan. It will set out the methods for managing surface water runoff and groundwater, to protect the local environment and sensitive receptors and include measures to prevent surface water flooding during construction - A detailed Spillage and Emergency Response Plan to set out pollution prevention measures and an emergency response plan for accidents and spillages - A field drainage strategy - Any field drainage intercepted during the cable installation will either be reinstated following the installation of the cable or diverted to a secondary channel <ul style="list-style-type: none"> • All construction work will be undertaken in accordance with the detailed CoCP (REP2-038) and good practice guidance including, but not limited to: <ul style="list-style-type: none"> - Control of Water Pollution from Construction Sites – Guidance for Consultants and Contractors CIRIA (Construction Industry Research and Information Association) (C650) CIRIA – SuDS (Sustainable Drainage Systems) Manual (CIRIA, 2015) • Preparation of a detailed Operational Drainage Management Plan for the Onshore Substation. The detailed Plan will be in general accordance with the Outline Operational Drainage Management Strategy (APP-231). It will set out how existing runoff rates to the surrounding water environment will be maintained at pre-development rates. The detailed Operational Drainage Management Plan will provide the detailed design of the realigned watercourse and will ensure that 8 m buffer is maintained between the banks of the ordinary watercourse and the Mona Onshore Substation. 	

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<ul style="list-style-type: none"> • Preparation of a detailed Construction Method Statement that will be in general accordance with the Outline Onshore Construction Method Statement (APP-227). The detailed Construction Method Statement will also include: <ul style="list-style-type: none"> – A detailed method statement for watercourse crossings (e.g. for temporary culvert crossings, appropriately sized flume pipes, equal to or greater than the diameter of the flume upstream and to an agreed length, will be placed on or below the hard bed of the watercourse). The watercourse crossing method statement will provide design details for each watercourse crossing location and would be agreed with the relevant authority prior to construction. • Preparation of a detailed Flood Management Plan for the construction support activities on the beach. The Plan will be in general accordance with the Outline Flood Management Plan (REP2-052) • Preparation of a detailed Landfall Construction Method Statement that will be in general accordance with the Outline Landfall Construction Method Statement (REP2-066). The Landfall Construction Method Statement will also include: <ul style="list-style-type: none"> – Measures to maintain the existing level of flood protection by avoiding the creation of a new pathway for flood water via the offshore export cable borehole and duct (e.g. sealing the end of the ducts) • The design of the oil storage and delivery facility at the Onshore Substation during the operations and maintenance will be in accordance with industry standards for pollution prevention as set out in the Design Principles (APP-189) • A Decommissioning Plan will be prepared to ensure the effective management of environmental risk during the 	

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
2.9.3	The impact of increased flood risk arising from additional surface water runoff during operation of the Mona Onshore Substation	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm (onshore infrastructure) Major Development 40/2017/1232 Major Development 46/2021/0159 <p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> Major Development: 46/2024/1200/PF. 	<p>decommissioning of the Mona Onshore Substation and access road.</p> <ul style="list-style-type: none"> Outline Operational Drainage Management Strategy (APP-231). FCA to meet planning policy requirements and best practise standards The Mona Onshore Cable Corridor, Mona 400 kV Grid Connection Cable Corridor and the construction site accesses will be designed to minimise land take and to avoid, where possible, impacts on existing drainage networks and features All major crossings (such as major roads and rail crossings) will be undertaken using trenchless techniques The haul road will be constructed from an engineered fill, with geotextile layers, the material will be granular and semi-permeable of an appropriate standard as documented in the Outline Construction Method Statement (REP2-068) and appended to the Outline CoCP The diversion of the ordinary watercourse at the Onshore Substation will be appropriately designed to ensure the existing watercourse capacity is maintained (i.e. conveyance of existing flows without increasing fluvial flood risk upstream) as documented in the Outline Operational Drainage Management Strategy (APP-231) A pre-construction drainage scheme will be designed for both the Mona Onshore Cable Corridor and Onshore Substation work sites as documented in the Outline Construction Surface Water and Drainage Management Plan (APP-218) and appended to the Outline CoCP Preparation of a detailed CoCP to ensure the effective management of environmental impacts during the construction phase of onshore and intertidal elements of the Mona Offshore Wind Project. The detailed CoCP will 	C: Negligible adverse

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<p>be in general accordance with the Outline CoCP within the DCO application (REP2-038) and include regulatory guidance and industry best practice guidance including:</p> <ul style="list-style-type: none"> - A detailed Construction Surface Water Drainage Management Plan. It will set out the methods for managing surface water runoff and groundwater, to protect the local environment and sensitive receptors and include measures to prevent surface water flooding during construction - A detailed Spillage and Emergency Response Plan to set out pollution prevention measures and an emergency response plan for accidents and spillages - A field drainage strategy - Any field drainage intercepted during the cable installation will either be reinstated following the installation of the cable or diverted to a secondary channel <ul style="list-style-type: none"> • All construction work will be undertaken in accordance with the detailed CoCP (REP2-038) and good practice guidance including, but not limited to: <ul style="list-style-type: none"> - Control of Water Pollution from Construction Sites – Guidance for Consultants and Contractors CIRIA (Construction Industry Research and Information Association) (C650) CIRIA – SuDS (Sustainable Drainage Systems) Manual (CIRIA, 2015) • Preparation of a detailed Operational Drainage Management Plan for the Onshore Substation. The detailed Plan will be in general accordance with the Outline Operational Drainage Management Strategy (APP-231). It will set out how existing runoff rates to the surrounding water environment will be maintained at pre-development rates. The detailed Operational Drainage Management Plan will provide the detailed design of the realigned watercourse and will ensure that 8 m buffer is 	

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<p>maintained between the banks of the ordinary watercourse and the Mona Onshore Substation.</p> <ul style="list-style-type: none"> • Preparation of a detailed Construction Method Statement that will be in general accordance with the Outline Onshore Construction Method Statement (APP-227). The detailed Construction Method Statement will also include: <ul style="list-style-type: none"> – A detailed method statement for watercourse crossings (e.g. for temporary culvert crossings, appropriately sized flume pipes, equal to or greater than the diameter of the flume upstream and to an agreed length, will be placed on or below the hard bed of the watercourse). The watercourse crossing method statement will provide design details for each watercourse crossing location and would be agreed with the relevant authority prior to construction. • Preparation of a detailed Flood Management Plan for the construction support activities on the beach. The Plan will be in general accordance with the Outline Flood Management Plan (REP2-052) • Preparation of a detailed Landfall Construction Method Statement that will be in general accordance with the Outline Landfall Construction Method Statement (REP2-066). The Landfall Construction Method Statement will also include: <ul style="list-style-type: none"> – Measures to maintain the existing level of flood protection by avoiding the creation of a new pathway for flood water via the offshore export cable borehole and duct (e.g. sealing the end of the ducts) • The design of the oil storage and delivery facility at the Onshore Substation during the operations and maintenance will be in accordance with industry standards for pollution prevention as set out in the Design Principles (APP-189) 	

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<ul style="list-style-type: none"> A Decommissioning Plan will be prepared to ensure the effective management of environmental risk during the decommissioning of the Mona Onshore Substation and access road. 	
2.9.4	The impact of increased flood risk from damage to flood defences	<p>Tier 3</p> <ul style="list-style-type: none"> MaresConnect. <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> Major Development: 46/2024/1200/PF. 	<ul style="list-style-type: none"> Outline CoCP and decommissioning plan The Mona Onshore Cable Corridor, Mona 400 kV Grid Connection Cable Corridor and the construction site accesses will be designed to minimise land take and to avoid, where possible, impacts on existing drainage networks and features All major crossings (such as major roads and rail crossings) will be undertaken using trenchless techniques The haul road will be constructed from an engineered fill, with geotextile layers, the material will be granular and semi-permeable of an appropriate standard as documented in the Outline Construction Method Statement (REP2-068) and appended to the Outline CoCP The diversion of the ordinary watercourse at the Onshore Substation will be appropriately designed to ensure the existing watercourse capacity is maintained (i.e. conveyance of existing flows without increasing fluvial flood risk upstream) as documented in the Outline Operational Drainage Management Strategy (APP-231) A pre-construction drainage scheme will be designed for both the Mona Onshore Cable Corridor and Onshore Substation work sites as documented in the Outline Construction Surface Water and Drainage Management Plan (APP-218) and appended to the Outline CoCP Preparation of a detailed CoCP to ensure the effective management of environmental impacts during the construction phase of onshore and intertidal elements of the Mona Offshore Wind Project. The detailed CoCP will 	<p>C: Minor adverse</p> <p>D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<p>be in general accordance with the Outline CoCP within the DCO application (REP2-038) and include regulatory guidance and industry best practice guidance including:</p> <ul style="list-style-type: none"> - A detailed Construction Surface Water Drainage Management Plan. It will set out the methods for managing surface water runoff and groundwater, to protect the local environment and sensitive receptors and include measures to prevent surface water flooding during construction - A detailed Spillage and Emergency Response Plan to set out pollution prevention measures and an emergency response plan for accidents and spillages - A field drainage strategy - Any field drainage intercepted during the cable installation will either be reinstated following the installation of the cable or diverted to a secondary channel <ul style="list-style-type: none"> • All construction work will be undertaken in accordance with the detailed CoCP (REP2-038) and good practice guidance including, but not limited to: <ul style="list-style-type: none"> - Control of Water Pollution from Construction Sites – Guidance for Consultants and Contractors CIRIA (Construction Industry Research and Information Association) (C650) CIRIA – SuDS (Sustainable Drainage Systems) Manual (CIRIA, 2015) • Preparation of a detailed Operational Drainage Management Plan for the Onshore Substation. The detailed Plan will be in general accordance with the Outline Operational Drainage Management Strategy (APP-231). It will set out how existing runoff rates to the surrounding water environment will be maintained at pre-development rates. The detailed Operational Drainage Management Plan will provide the detailed design of the realigned watercourse and will ensure that 8 m buffer is 	

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<p>maintained between the banks of the ordinary watercourse and the Mona Onshore Substation.</p> <ul style="list-style-type: none"> • Preparation of a detailed Construction Method Statement that will be in general accordance with the Outline Onshore Construction Method Statement (APP-227). The detailed Construction Method Statement will also include: <ul style="list-style-type: none"> – A detailed method statement for watercourse crossings (e.g. for temporary culvert crossings, appropriately sized flume pipes, equal to or greater than the diameter of the flume upstream and to an agreed length, will be placed on or below the hard bed of the watercourse). The watercourse crossing method statement will provide design details for each watercourse crossing location and would be agreed with the relevant authority prior to construction. • Preparation of a detailed Flood Management Plan for the construction support activities on the beach. The Plan will be in general accordance with the Outline Flood Management Plan (REP2-052) • Preparation of a detailed Landfall Construction Method Statement that will be in general accordance with the Outline Landfall Construction Method Statement (REP2-066). The Landfall Construction Method Statement will also include: <ul style="list-style-type: none"> – Measures to maintain the existing level of flood protection by avoiding the creation of a new pathway for flood water via the offshore export cable borehole and duct (e.g. sealing the end of the ducts) • The design of the oil storage and delivery facility at the Onshore Substation during the operations and maintenance will be in accordance with industry standards for pollution prevention as set out in the Design Principles (APP-189) 	

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
2.9.6	The impact of contaminated runoff on the quality of watercourses	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm (onshore infrastructure) Major Development 40/2017/1232 Major Development 46/2021/0159. <p>Tier 3</p> <ul style="list-style-type: none"> St Asaph Solar Farm Major Development 31/2023/0525 (NGET - extension) NGET – overhead lines NGET – Permitted development. <p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> Major Development: 46/2024/1200/PF. 	<ul style="list-style-type: none"> A Decommissioning Plan will be prepared to ensure the effective management of environmental risk during the decommissioning of the Mona Onshore Substation and access road. Outline CoCP and decommissioning plan The Mona Onshore Cable Corridor, Mona 400 kV Grid Connection Cable Corridor and the construction site accesses will be designed to minimise land take and to avoid, where possible, impacts on existing drainage networks and features All major crossings (such as major roads and rail crossings) will be undertaken using trenchless techniques The haul road will be constructed from an engineered fill, with geotextile layers, the material will be granular and semi-permeable of an appropriate standard as documented in the Outline Construction Method Statement (REP2-068) and appended to the Outline CoCP The diversion of the ordinary watercourse at the Onshore Substation will be appropriately designed to ensure the existing watercourse capacity is maintained (i.e. conveyance of existing flows without increasing fluvial flood risk upstream) as documented in the Outline Operational Drainage Management Strategy (APP-231) A pre-construction drainage scheme will be designed for both the Mona Onshore Cable Corridor and Onshore Substation work sites as documented in the Outline Construction Surface Water and Drainage Management Plan (APP-218) and appended to the Outline CoCP Preparation of a detailed CoCP to ensure the effective management of environmental impacts during the construction phase of onshore and intertidal elements of the Mona Offshore Wind Project. The detailed CoCP will 	<p>C: Minor adverse</p> <p>D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<p>be in general accordance with the Outline CoCP within the DCO application (REP2-038) and include regulatory guidance and industry best practice guidance including:</p> <ul style="list-style-type: none"> - A detailed Construction Surface Water Drainage Management Plan. It will set out the methods for managing surface water runoff and groundwater, to protect the local environment and sensitive receptors and include measures to prevent surface water flooding during construction - A detailed Spillage and Emergency Response Plan to set out pollution prevention measures and an emergency response plan for accidents and spillages - A field drainage strategy - Any field drainage intercepted during the cable installation will either be reinstated following the installation of the cable or diverted to a secondary channel <ul style="list-style-type: none"> • All construction work will be undertaken in accordance with the detailed CoCP (REP2-038) and good practice guidance including, but not limited to: <ul style="list-style-type: none"> - Control of Water Pollution from Construction Sites – Guidance for Consultants and Contractors CIRIA (Construction Industry Research and Information Association) (C650) CIRIA – SuDS (Sustainable Drainage Systems) Manual (CIRIA, 2015) • Preparation of a detailed Operational Drainage Management Plan for the Onshore Substation. The detailed Plan will be in general accordance with the Outline Operational Drainage Management Strategy (APP-231). It will set out how existing runoff rates to the surrounding water environment will be maintained at pre-development rates. The detailed Operational Drainage Management Plan will provide the detailed design of the realigned watercourse and will ensure that 8 m buffer is 	

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<p>maintained between the banks of the ordinary watercourse and the Mona Onshore Substation.</p> <ul style="list-style-type: none"> • Preparation of a detailed Construction Method Statement that will be in general accordance with the Outline Onshore Construction Method Statement (APP-227). The detailed Construction Method Statement will also include: <ul style="list-style-type: none"> – A detailed method statement for watercourse crossings (e.g. for temporary culvert crossings, appropriately sized flume pipes, equal to or greater than the diameter of the flume upstream and to an agreed length, will be placed on or below the hard bed of the watercourse). The watercourse crossing method statement will provide design details for each watercourse crossing location and would be agreed with the relevant authority prior to construction. • Preparation of a detailed Flood Management Plan for the construction support activities on the beach. The Plan will be in general accordance with the Outline Flood Management Plan (REP2-052) • Preparation of a detailed Landfall Construction Method Statement that will be in general accordance with the Outline Landfall Construction Method Statement (REP2-066). The Landfall Construction Method Statement will also include: <ul style="list-style-type: none"> – Measures to maintain the existing level of flood protection by avoiding the creation of a new pathway for flood water via the offshore export cable borehole and duct (e.g. sealing the end of the ducts) • The design of the oil storage and delivery facility at the Onshore Substation during the operations and maintenance will be in accordance with industry standards for pollution prevention as set out in the Design Principles (APP-189) 	

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<ul style="list-style-type: none"> A Decommissioning Plan will be prepared to ensure the effective management of environmental risk during the decommissioning of the Mona Onshore Substation and access road. 	
2.9.7	The impact of damage to existing field drainage	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm (onshore infrastructure) 	<ul style="list-style-type: none"> Outline CoCP and decommissioning plan 	<p>C: Minor adverse D: Minor adverse</p>
2.9.8	The impact of damage to existing water pipelines	<ul style="list-style-type: none"> Major Development 40/2017/1232 Major Development 46/2021/0159. <p>Tier 3</p> <ul style="list-style-type: none"> St Asaph Solar Farm Major Development 31/2023/0525 (NGET - extension) NGET – overhead lines. <p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> Major Development: 46/2024/1200/PF. 	<ul style="list-style-type: none"> The Mona Onshore Cable Corridor, Mona 400 kV Grid Connection Cable Corridor and the construction site accesses will be designed to minimise land take and to avoid, where possible, impacts on existing drainage networks and features All major crossings (such as major roads and rail crossings) will be undertaken using trenchless techniques The haul road will be constructed from an engineered fill, with geotextile layers, the material will be granular and semi-permeable of an appropriate standard as documented in the Outline Construction Method Statement (REP2-068) and appended to the Outline CoCP The diversion of the ordinary watercourse at the Onshore Substation will be appropriately designed to ensure the existing watercourse capacity is maintained (i.e. conveyance of existing flows without increasing fluvial flood risk upstream) as documented in the Outline Operational Drainage Management Strategy (APP-231) A pre-construction drainage scheme will be designed for both the Mona Onshore Cable Corridor and Onshore Substation work sites as documented in the Outline Construction Surface Water and Drainage Management Plan (APP-218) and appended to the Outline CoCP Preparation of a detailed CoCP to ensure the effective management of environmental impacts during the construction phase of onshore and intertidal elements of the Mona Offshore Wind Project. The detailed CoCP will 	<p>C: Minor adverse D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<p>be in general accordance with the Outline CoCP within the DCO application (REP2-038) and include regulatory guidance and industry best practice guidance including:</p> <ul style="list-style-type: none"> - A detailed Construction Surface Water Drainage Management Plan. It will set out the methods for managing surface water runoff and groundwater, to protect the local environment and sensitive receptors and include measures to prevent surface water flooding during construction - A detailed Spillage and Emergency Response Plan to set out pollution prevention measures and an emergency response plan for accidents and spillages - A field drainage strategy - Any field drainage intercepted during the cable installation will either be reinstated following the installation of the cable or diverted to a secondary channel <ul style="list-style-type: none"> • All construction work will be undertaken in accordance with the detailed CoCP (REP2-038) and good practice guidance including, but not limited to: <ul style="list-style-type: none"> - Control of Water Pollution from Construction Sites – Guidance for Consultants and Contractors CIRIA (Construction Industry Research and Information Association) (C650) CIRIA – SuDS (Sustainable Drainage Systems) Manual (CIRIA, 2015) • Preparation of a detailed Operational Drainage Management Plan for the Onshore Substation. The detailed Plan will be in general accordance with the Outline Operational Drainage Management Strategy (APP-231). It will set out how existing runoff rates to the surrounding water environment will be maintained at pre-development rates. The detailed Operational Drainage Management Plan will provide the detailed design of the realigned watercourse and will ensure that 8 m buffer is 	

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<p>maintained between the banks of the ordinary watercourse and the Mona Onshore Substation.</p> <ul style="list-style-type: none"> • Preparation of a detailed Construction Method Statement that will be in general accordance with the Outline Onshore Construction Method Statement (APP-227). The detailed Construction Method Statement will also include: <ul style="list-style-type: none"> – A detailed method statement for watercourse crossings (e.g. for temporary culvert crossings, appropriately sized flume pipes, equal to or greater than the diameter of the flume upstream and to an agreed length, will be placed on or below the hard bed of the watercourse). The watercourse crossing method statement will provide design details for each watercourse crossing location and would be agreed with the relevant authority prior to construction. • Preparation of a detailed Flood Management Plan for the construction support activities on the beach. The Plan will be in general accordance with the Outline Flood Management Plan (REP2-052) • Preparation of a detailed Landfall Construction Method Statement that will be in general accordance with the Outline Landfall Construction Method Statement (REP2-066). The Landfall Construction Method Statement will also include: <ul style="list-style-type: none"> – Measures to maintain the existing level of flood protection by avoiding the creation of a new pathway for flood water via the offshore export cable borehole and duct (e.g. sealing the end of the ducts) • The design of the oil storage and delivery facility at the Onshore Substation during the operations and maintenance will be in accordance with industry standards for pollution prevention as set out in the Design Principles (APP-189) 	

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<ul style="list-style-type: none"> - A Decommissioning Plan will be prepared to ensure the effective management of environmental risk during the decommissioning of the Mona Onshore Substation and access road. 	

MONA OFFSHORE WIND PROJECT

1.2.14 Volume 3, Chapter 3: Onshore ecology (APP-066)

Table 1.13: Projects, plans and activities screened into the CEA for Volume 3, Chapter 3: Onshore ecology (APP-066).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
3.12.2	Temporary and permanent habitat loss impacts on GCN (Great Crested Newt)	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm (onshore infrastructure) Major Development 40/2017/1232 Major Development 46/2021/0159 Major Development: 0/42900 Major Development: 0/44621 Major Development: 0/47217 Major Development: 0/48393 Major Development: 0/49141 Major Development: 0/43877 Major Development: 40/2021/0309. 	<ul style="list-style-type: none"> EPS (European Protected Species) mitigation licence to cover all licensable impacts on GCN Preconstruction surveys to ensure the EPS mitigation licence is informed by current survey information GCN trapping and relocation, and provision new terrestrial and aquatic GCN habitat as specified in the EPS mitigation licence CoCP and LEMP (Landscape and Ecology Management Plan) (including a GCN mitigation strategy) secured under the DCO. 	<p>Tier 1</p> <p>C: Minor beneficial</p> <p>D: Minor beneficial</p> <p>Tier 3</p> <p>C: Negligible adverse</p> <p>D: Negligible adverse</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>C: Negligible adverse</p> <p>D: Negligible adverse</p>
3.12.2	Temporary and permanent habitat loss impacts on bats	<p>Tier 3</p> <ul style="list-style-type: none"> St Asaph Solar Farm Major Development 31/2023/0525 (NGET) NGET – overhead lines NGET – Permitted development. <p>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</p> <ul style="list-style-type: none"> Major Development: 46/2024/1200/PF. 	<ul style="list-style-type: none"> EPS mitigation licence to cover all licensable impacts on bats Preconstruction surveys to ensure the EPS mitigation licence is informed by current survey information Provision of replacement roosts to mitigate roost loss, to be specified in the EPS mitigation licence Use of temporary hedgerows to maintain flight lines during construction Use of sensitive lighting to avoid light spill on roosts and flight lines where artificial lighting is required Reinstatement of hedgerows and new hedgerows and woodland planting 	<p>Tier 1</p> <p>C: Minor adverse</p> <p>D: Minor adverse</p> <p>Tier 3</p> <p>C: Negligible adverse</p> <p>D: Negligible adverse</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <p>C: Minor adverse</p> <p>D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<ul style="list-style-type: none"> • CoCP and LEMP secured under the DCO. 	
3.12.2	Temporary and permanent habitat loss impacts on badger		<ul style="list-style-type: none"> • Site layout and design to minimise the number of setts affected • Closure of badger setts under an NRW (Natural Resources Wales) licence • Preconstruction surveys to ensure the EPS mitigation licence is informed by current survey information • CoCP and LEMP secured under the DCO. 	<p>C: Minor adverse D: Minor adverse</p>
3.12.2	Temporary and permanent habitat loss impacts on reptiles		<ul style="list-style-type: none"> • Trapping and relocation of reptiles as part of GCN trapping and relocation • Incorporating replacement habitat for reptiles as part of the GCN mitigation strategy • CoCP and LEMP secured under the DCO. 	<p>Tier 1 C: Minor beneficial D: Minor beneficial</p> <p>Tier 3 C: Negligible adverse D: Negligible adverse</p> <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u> C: Negligible adverse D: Negligible adverse</p>
3.12.2	Temporary and permanent habitat loss of hedgerows		<ul style="list-style-type: none"> • Site layout design to minimise loss with the majority of hedgerows being retained • Minimising extent of loss where it is unavoidable • Replacement and new species rich hedgerow planting with trees 	<p>C: Minor beneficial D: Minor beneficial</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
3.12.3	Habitat disturbance impacts on bats		<ul style="list-style-type: none"> • CoCP and LEMP secured under the DCO. • EPS mitigation licence to cover all licensable impacts on bats • Preconstruction surveys to ensure the EPS mitigation licence is informed by current survey information • Provision of replacement roosts to mitigate roost loss, to be specified in the EPS mitigation licence • Use of temporary hedgerows to maintain flight lines during construction • Use of sensitive lighting to avoid light spill on roosts and flight lines where artificial lighting is required • Reinstatement of hedgerows and new hedgerow and woodland planting • CoCP and LEMP secured under the DCO. 	<p>C: Minor adverse O: Minor adverse D: Minor adverse</p>
3.12.3	Habitat disturbance impacts on badgers		<ul style="list-style-type: none"> • Site layout and design to minimise the number of setts affected • Closure of badger setts under an NRW licence • Preconstruction surveys to ensure the EPS mitigation licence is informed by current survey information • CoCP and LEMP secured under the DCO. 	<p>C: Minor adverse O: Minor adverse D: Minor adverse</p>
3.12.4	Habitat disturbance and fragmentation impacts on bats		<ul style="list-style-type: none"> • EPS mitigation licence to cover all licensable impacts on bats 	<p>C: Negligible adverse O: Negligible adverse D: Negligible adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<ul style="list-style-type: none"> • Preconstruction surveys to ensure the EPS mitigation licence is informed by current survey information • Provision of replacement roosts to mitigate roost loss, to be specified in the EPS mitigation licence • Use of temporary hedgerows to maintain flight lines during construction • Use of sensitive lighting to avoid light spill on roosts and flight lines where artificial lighting is required • Reinstatement of hedgerows and new hedgerow and woodland planting • CoCP and LEMP secured under the DCO. 	
3.12.4	Habitat disturbance and fragmentation impacts on reptiles		<ul style="list-style-type: none"> • Trapping and relocation of reptiles as part of GCN trapping and relocation • Incorporating replacement habitat for reptiles as part of the GCN mitigation strategy • CoCP and LEMP secured under the DCO 	<p>C: Negligible adverse O: Negligible adverse D: Negligible adverse</p>
3.12.4	Habitat disturbance and fragmentation impacts on GCN		<ul style="list-style-type: none"> • EPS mitigation licence to cover all licensable impacts on GCN • Preconstruction surveys to ensure the EPS mitigation licence is informed by current survey information • GCN trapping and relocation, and provision new terrestrial and aquatic GCN habitat as specified in the EPS mitigation licence 	<p>C: Negligible adverse O: Negligible adverse D: Negligible adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<ul style="list-style-type: none"> CoCP and LEMP (including a GCN mitigation strategy) secured under the DCO. 	

MONA OFFSHORE WIND PROJECT

1.2.15 Volume 3, Chapter 4: Onshore and intertidal ornithology (APP-067)

Table 1.14: Projects, plans and activities screened into the CEA for Volume 3, Chapter 4: Onshore and intertidal ornithology (APP-067).

Section number	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
4.11.2	The potential impact of temporary and permanent habitat loss during construction, operation and maintenance and decommissioning of the Mona Offshore Wind Project.	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Windfarm Major Development: 0/42900 Major Development: 0/44621 Major Development: 0/47217 Major Development: 0/48393 	<ul style="list-style-type: none"> Outline Code of Construction Practice (REP2-038) The deployment of a suitably qualified ECoW during construction activities Outline Landscape and Ecology Management Plan (REP2-034) including the Bird Protection Plan. 	<p>Mona Onshore Development Area</p> <p>C: Minor adverse</p> <p>D: Minor adverse</p> <p>Onshore Substation</p> <p>O: Minor adverse</p>
4.11.3	The potential impact of habitat disturbance during construction, operation and maintenance and decommissioning of the Mona Offshore Wind Project.	<ul style="list-style-type: none"> Major Development: 0/49141 Major Development: 40/2021/0309 Major Development 40/2017/1232 Major Development: 46/2021/0159 Major Development: 0/43877 <p>Tier 3</p> <ul style="list-style-type: none"> St Asaph Solar Farm NGET 31/2023/0525 NGET (new overhead lines) NGET (extension to the GIS hall) <p><u>Review of Cumulative Effects Assessment and In-Combination Assessment (S D3 18)</u></p> <ul style="list-style-type: none"> Major Development: 46/2024/1200/PF. 		<p>Mona Onshore Development Area</p> <p>C: Minor adverse</p> <p>D: Minor adverse</p> <p>Onshore Substation</p> <p>O: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

1.2.16 Volume 3, Chapter 5: Historic environment (APP-068)

Table 1.15: Projects, plans and activities screened into the CEA for Volume 3, Chapter 5: Historic environment (APP-068).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
5.12.2	Loss of, or harm to, buried archaeological remains, deposits of geoarchaeological and palaeoenvironmental interests during construction	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Mor Offshore Wind Farm (onshore infrastructure) <p>Tier 3</p> <ul style="list-style-type: none"> St Asaph Solar Farm 	<ul style="list-style-type: none"> Undertake field surveys, route and substation optioneering aimed at avoiding or minimising impacts. 	Unknown
5.12.4	Impact on Grade II listed Pentre Meredydd as a result of change within its setting.	<ul style="list-style-type: none"> Major Development 31/2023/0525 (NGET - extension) NGET – overhead lines NGET – Permitted development 	<ul style="list-style-type: none"> Undertake site visits as part of settings assessment, route and substation optioneering aimed at avoiding or minimising impacts, landscape plans to further minimise impacts. 	<p>C: Moderate adverse</p> <p>O: Moderate adverse</p> <p>D: Minor adverse</p>
5.12.4	The impact of the onshore transmission assets on other above ground historic assets as a result of change within their setting.		<ul style="list-style-type: none"> Undertake site visits as part of settings assessment, route and substation optioneering aimed at avoiding or minimising impacts, landscape plans to further minimise impacts. 	<p>C: Up to Minor adverse</p> <p>O: Up to Minor adverse</p> <p>D: Up to Minor adverse</p>
5.12.5	The impact of the onshore transmission assets on the character of the historic landscape.		<ul style="list-style-type: none"> Undertake site visits as part of historic landscape character assessment, route and substation optioneering aimed at avoiding or minimising 	<p>C: Negligible to minor adverse</p> <p>O: Negligible to minor adverse</p> <p>D: Negligible to minor adverse</p>
5.12.6	Impact of the structures within the Mona Array Area on above ground historic assets as a result of change within their setting		<ul style="list-style-type: none"> Undertake site visits as part of settings assessment 	<p>O: Up to Moderate Adverse</p> <p>D: Up to Moderate Adverse</p>

MONA OFFSHORE WIND PROJECT

1.2.17 Volume 3, Chapter 6: Landscape and visual resources (APP-069)

Table 1.16: Projects, plans and activities screened into the CEA for Volume 3, Chapter 6: Landscape and visual resources (APP-069).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
Cumulative visual effects experienced by users of the public rights of way network and Access Land within the Clwydian Range and Dee Valley NL, together with proposed development projects				
6.14.2/6.14.3	Visual receptors – Users of public rights of way (within 1 km of the Onshore Substation)	<p>Tier 1 Existing projects</p> <ul style="list-style-type: none"> • North Wales offshore wind farm cluster • North Wales onshore wind farm cluster • Other relevant existing onshore projects. 	<ul style="list-style-type: none"> • The onshore cables will be underground, rather than on overhead lines. The link boxes will be accessed via manhole covers once installed • Replace habitat lost by the development of the Mona onshore transmission assets 	<p>C: Minor to moderate adverse (not significant) O: Minor to moderate adverse (not significant) D: Minor to moderate adverse (not significant)</p>
6.14.2/6.14.3	Visual receptors – Users of the Wales Coast Path	<p>Tier 1 Projects under construction, permitted and submitted for planning approval</p> <ul style="list-style-type: none"> • Awel y Môr Offshore Wind Farm array and Onshore Substation • Pant y Maen onshore wind farm • Pant y Bryn onshore wind farm . 	<ul style="list-style-type: none"> • Planting will be provided at the Onshore Substation site for screening. These measures are set out in an Outline LEMP (REP2-034) that has been prepared and submitted with the application for consent 	<p>C: Negligible adverse (not significant) O: Negligible adverse (not significant) D: Negligible adverse (not significant)</p>
6.14.2/6.14.3	Visual receptors – Users of the Offa's Dyke Path National Trail	<p>Tier 3 Proposed projects</p> <ul style="list-style-type: none"> • St Asaph Solar Farm • National Grid extension to Bodelwyddan substation. 	<ul style="list-style-type: none"> • The mitigation planting will be designed to comprise a mix of faster growing 'nurse' species and slower growing 'core' species. The core species will comprise a mix of preferred native, canopy species that will outlive the nurse species and characterise the woodland structure over the longer term 	<p>C: Moderate adverse (not significant) O: Moderate adverse (not significant) D: Moderate adverse (not significant)</p>
6.14.2/6.14.3	Visual receptors – Visitors to the Clwydian Range and Dee Valley NL		<ul style="list-style-type: none"> • The onshore cables will be buried for their entire length • Outline LEMP (REP2-034) setting out the landscape strategy. This is likely to include: 	<p>C: Moderate adverse (not significant) O: Moderate adverse (not significant) D: Moderate adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<ul style="list-style-type: none"> - Incorporating surface water attenuation features at Onshore Substation - Strengthening and enhancement of existing hedgerow field boundaries within the vicinity of Onshore Substation - Using native and locally appropriate plant species around Onshore Substation - Reinstating hedgerows and trees required to be removed within the Onshore Cable Corridor - Using earth-shaping as part of the landscape mitigation - Identifying areas where it may be possible to achieve advanced planting • An Outline Arboricultural Method Statement has been prepared as part of the Outline CoCP (REP2-072) • Onshore Substation Design Principles Statement to include the following: <ul style="list-style-type: none"> - Design of substation building - Use of appropriate materials/colours/finishes for the façades of the Onshore Substation buildings. 	
Cumulative effects on the <u>fabric</u> of landscape – elements and features together with proposed development projects				
6.14.2/6.14.3	Landmap Visual and Sensory Aspect Areas	<p><u>Tier 1</u> Existing projects</p> <ul style="list-style-type: none"> • North Wales offshore wind farm cluster 	<ul style="list-style-type: none"> • The onshore cables will be underground, rather than on overhead 	<p>C: Minor to moderate adverse (not significant) O: Minor adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • North Wales onshore wind farm cluster • Other relevant existing onshore projects. <p>Tier 1 Projects under construction, permitted and submitted for planning approval</p> <ul style="list-style-type: none"> • Awel y Môr Offshore Wind Farm array and Onshore Substation • Pant y Maen onshore wind farm • Pant y Bryn onshore wind farm . <p>Tier 3 Proposed projects</p> <ul style="list-style-type: none"> • St Asaph Solar Farm • National Grid extension to Bodelwyddan substation. 	<p>lines. The link boxes will be accessed via manhole covers once installed</p> <ul style="list-style-type: none"> • Replace habitat lost by the development of the Mona onshore transmission assets • Planting will be provided at the Onshore Substation site for screening. These measures are set out in an Outline LEMP (REP2-034) that has been prepared and submitted with the application for consent • The mitigation planting will be designed to comprise a mix of faster growing 'nurse' species and slower growing 'core' species. The core species will comprise a mix of preferred native, canopy species that will outlive the nurse species and characterise the woodland structure over the longer term • The onshore cables will be buried for their entire length • Outline LEMP (REP2-034) setting out the landscape strategy. This is likely to include: <ul style="list-style-type: none"> – Incorporating surface water attenuation features at Onshore Substation – Strengthening and enhancement of existing hedgerow field boundaries within the vicinity of Onshore Substation 	<p>D: Minor to moderate adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<ul style="list-style-type: none"> - Using native and locally appropriate plant species around Onshore Substation - Reinstating hedgerows and trees required to be removed within the Onshore Cable Corridor - Using earth-shaping as part of the landscape mitigation - Identifying areas where it may be possible to achieve advanced planting • An Outline Arboricultural Method Statement has been prepared as part of the Outline CoCP (REP2-072) • Onshore Substation Design Principles Statement to include the following: <ul style="list-style-type: none"> - Design of substation building • Use of appropriate materials/colours/finishes for the façades of the Onshore Substation buildings. 	
Cumulative effects on the <u>aesthetic aspects</u> of landscape resources together with proposed development projects				
6.14.2/6.14.3	Nationally designated landscapes - Clwydian Range and Dee Valley NL: Aesthetic aspects	<u>Tier 1</u> Existing projects <ul style="list-style-type: none"> • North Wales offshore wind farm cluster • North Wales onshore wind farm cluster • Other relevant existing onshore projects. 	<ul style="list-style-type: none"> • The onshore cables will be underground, rather than on overhead lines. The link boxes will be accessed via manhole covers once installed • Replace habitat lost by the development of the Mona onshore transmission assets 	C: Moderate adverse (not significant) O: Moderate adverse (not significant) D: Moderate adverse (not significant)
6.14.2/6.14.3	LANDMAP Visual and Sensory Aspect Areas	<u>Tier 1</u> Projects under construction, permitted and submitted for planning approval	<ul style="list-style-type: none"> • Planting will be provided at the Onshore Substation site for screening. These measures are set out in an Outline LEMP (REP2-034) that has 	C: Moderate adverse (Cefn Estate mosaic rolling lowland Aspect Area) to (minor adverse Land north and

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • Awel y Môr Offshore Wind Farm array and Onshore Substation • Pant y Maen onshore wind farm • Pant y Bryn onshore wind farm . <p>Tier 3</p> <p>Proposed projects</p> <ul style="list-style-type: none"> • St Asaph Solar Farm • National Grid extension to Bodelwyddan substation. 	<p>been prepared and submitted with the application for consent</p> <ul style="list-style-type: none"> • The mitigation planting will be designed to comprise a mix of faster growing 'nurse' species and slower growing 'core' species. The core species will comprise a mix of preferred native, canopy species that will outlive the nurse species and characterise the woodland structure over the longer term • The onshore cables will be buried for their entire length • Outline LEMP (REP2-034) setting out the landscape strategy. This is likely to include: <ul style="list-style-type: none"> – Incorporating surface water attenuation features at Onshore Substation – Strengthening and enhancement of existing hedgerow field boundaries within the vicinity of Onshore Substation – Using native and locally appropriate plant species around Onshore Substation – Reinstating hedgerows and trees required to be removed within the Onshore Cable Corridor – Using earth-shaping as part of the landscape mitigation – Identifying areas where it may be possible to achieve advanced planting 	<p>east of Boddelwyddan Aspect Area) (not significant)</p> <p>O: Minor adverse (Cefn Estate mosaic rolling lowland Aspect Area) to negligible adverse Land north and east of Boddelwyddan Aspect Area (not significant)</p> <p>D: Moderate adverse (Cefn Estate mosaic rolling lowland Aspect Area) to minor adverse (Land north and east of Boddelwyddan Aspect Area) (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<ul style="list-style-type: none"> An Outline Arboricultural Method Statement has been prepared as part of the Outline CoCP (REP2-072) Onshore Substation Design Principles Statement to include the following: <ul style="list-style-type: none"> Design of substation building Use of appropriate materials/colours/finishes for the façades of the Onshore Substation buildings. 	
Cumulative effects on the <u>overall character</u> of landscape resources together with proposed development projects				
6.14.2/6.14.3	Nationally designated landscapes - Clwydian Range and Dee Valley NL: Overall character	<p>Tier 1 Existing projects</p> <ul style="list-style-type: none"> North Wales offshore wind farm cluster North Wales onshore wind farm cluster Other relevant existing onshore projects. 	<ul style="list-style-type: none"> The onshore cables will be underground, rather than on overhead lines. The link boxes will be accessed via manhole covers once installed 	<p>C: N/A O: Moderate adverse (not significant) D: Minor adverse (not significant)</p>
6.14.2/6.14.3	LANDMAP Visual and Sensory Aspect Areas (Figure 6.3): Tier 1 and 3	<p>Tier 1 Projects under construction, permitted and submitted for planning approval</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm array and Onshore Substation Pant y Maen onshore wind farm Pant y Bryn onshore wind farm . <p>Tier 3 Proposed projects</p> <ul style="list-style-type: none"> St Asaph Solar Farm National Grid extension to Bodelwyddan substation. 	<ul style="list-style-type: none"> Replace habitat lost by the development of the Mona onshore transmission assets Planting will be provided at the Onshore Substation site for screening. These measures are set out in an Outline LEMP (REP2-034) that has been prepared and submitted with the application for consent The mitigation planting will be designed to comprise a mix of faster growing 'nurse' species and slower growing 'core' species. The core species will comprise a mix of preferred native, canopy species that will outlive the nurse species and characterise the woodland structure over the longer term 	<p>C: Minor adverse (not significant) O: Negligible to minor adverse (not significant) D: Minor adverse (not significant)</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			<ul style="list-style-type: none"> • The onshore cables will be buried for their entire length • Outline LEMP (REP2-034) setting out the landscape strategy. This is likely to include: <ul style="list-style-type: none"> – Incorporating surface water attenuation features at Onshore Substation – Strengthening and enhancement of existing hedgerow field boundaries within the vicinity of Onshore Substation – Using native and locally appropriate plant species around Onshore Substation – Reinstating hedgerows and trees required to be removed within the Onshore Cable Corridor – Using earth-shaping as part of the landscape mitigation – Identifying areas where it may be possible to achieve advanced planting • An Outline Arboricultural Method Statement has been prepared as part of the Outline CoCP (REP2-072) • Onshore Substation Design Principles Statement to include the following: <ul style="list-style-type: none"> – Design of substation building • Use of appropriate materials/colours/finishes for the façades of the Onshore Substation buildings. 	

1.2.18 Volume 3, Chapter 7: Land use and recreation (APP-070)

Table 1.17: Projects, plans and activities screened into the CEA for Volume 3, Chapter 7: Land use and recreation (APP-070).

Section number	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
7.10.2	The temporary loss of best and most versatile land	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm Major Development: 40/2021/0309. <p>Tier 3</p> <ul style="list-style-type: none"> St Asaph Solar Farm NGET Major Development 31/2025/0525 NGET Overhead lines NGET Permitted Development 	<ul style="list-style-type: none"> Implementation of measures in the detailed Soil Management Plan to reduce loss of agricultural land quality, as far as possible during construction of the Mona Offshore Wind Project. The preparation of a detailed Soil Management Plan would be in general accordance with the Outline Soil Management Plan (REP2-054), which is secured as a Requirement of the DCO. 	C: Minor adverse
7.10.2	The permanent loss of best and most versatile land		<ul style="list-style-type: none"> None 	<p>C: Moderate adverse (not significant in EIA terms)</p> <p>O: Moderate adverse (not significant in EIA terms)</p> <p>D: Moderate adverse (not significant in EIA terms)</p>
7.10.3	The temporary disruption caused to the operation of farm holdings		<ul style="list-style-type: none"> Implementation of measures set out in the detailed CoCP to limit disruption to the operation of individual holdings. The preparation of a detailed Code of Construction Practice would be in general accordance with the Outline Code of Construction Practice (REP2-038) which is 	C: Minor adverse

MONA OFFSHORE WIND PROJECT

Section number	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
			secured as a Requirement of the DCO.	

MONA OFFSHORE WIND PROJECT

1.2.19 Volume 3, Chapter 8: Traffic and transport (APP-071)

Table 1.18: Projects, plans and activities screened into the CEA for Volume 3, Chapter 8: Traffic and transport (APP-071).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
8.11.3	The impact on driver delay (including temporary delays to public transport services) caused by construction works or construction traffic using the LRN (Local Road Network) and SRN (Strategic Road Network)	<p>Tier 3</p> <ul style="list-style-type: none"> St. Asaph Solar Farm Major Development: 31/2023/0525 Awel y Môr Offshore Wind Farm (for the reasons set out in Table 8.37, this is considered cumulatively to ensure a robust assessment, albeit noting that from a TA perspective, this should normally be considered as a committed development and form part of the baseline scenario. Table 8.37 sets out Awel y Môr as Tier 1, however, for TA purposes, to create a MDS with maximised cumulative traffic flows, all cumulative development is considered together and thus, for the reasons above, Awel y Môr is considered together with the other cumulative developments, which in this instance are all Tier 3.) 	<ul style="list-style-type: none"> All major crossings (such as public highways and rail crossings) will be undertaken using trenchless techniques The preparation of a detailed CoCP that will be in general accordance with the Outline COCP (REP2-038). The CoCP will set out the construction working hours for the Mona Offshore Wind Project The preparation of a detailed Construction Traffic Management Plan (CTMP) as part of the detailed Code of Construction Practice. The CTMP will be in general accordance with Outline CTMP (REP2-064) and will include: <ul style="list-style-type: none"> Suitable HGV (Heavy Goods Vehicle) routes Requirement for construction vehicles to use the haul road where possible Pre-entry condition surveys Restrictions on HGV operating hours The provision of appropriate parking facilities for construction workers Monitoring of vehicle use The preparation of a detailed Highways Access Management Plan (HAMP) as 	<p>C: Negligible adverse O: Negligible adverse D: Negligible adverse</p>
8.11.4	The impact on pedestrian (incorporating non-motorised users) delay caused by construction works or construction traffic using the LRN and SRN			<p>C: Negligible adverse O: Negligible adverse D: Negligible adverse</p>
8.11.5	The impact on non-motorised user amenity and fear and intimidation caused by construction works or construction traffic using the LRN and SRN			<p>C: Negligible adverse O: Negligible adverse D: Negligible adverse</p>
8.11.6	The impact on severance caused by construction works or construction traffic			<p>C: Negligible adverse O: Negligible adverse D: Negligible adverse</p>
8.11.7	The impact of construction traffic on road safety for users of the LRN, SRN and other transport receptors			<p>C: Negligible adverse O: Negligible adverse D: Negligible adverse</p>
8.11.7	The impact of AILs (Abnormal Indivisible Load)			<p>C: Negligible adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
	on the safety of users of the LRN, SRN and other transport receptors		<p>part of the detailed CoCP. The HAMP will be in general accordance with the OHAMP (Outline Highways Access Management Plan) (APP-228) and will include:</p> <ul style="list-style-type: none"> - The design of HGV access points, including visibility standards - Reinstatement of the original highway after construction work is completed <ul style="list-style-type: none"> • A route for AILs will be identified (this will be between the port of entry, the SRN and Onshore Substation). The route timing and method of transport of AILs will be discussed and agreed with the relevant highway and bridge authorities and the police. 	<p>O: Negligible adverse D: Negligible adverse</p>

1.2.20 Volume 3, Chapter 9: Noise and vibration (APP-072)

Table 1.19: Projects, plans and activities screened into the CEA for Volume 3, Chapter 9: Noise and vibration (APP-072).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
9.11.2	Noise impacts due to the Mona Onshore Substation	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Windfarm (Onshore Infrastructure) Major Development: 46/2021/0159. <p>Tier 3</p> <ul style="list-style-type: none"> St Asaph Solar Farm Major Development: 31/2023/0525 (NGET – extension) NGET – overhead lines NGET – Permitted development. 	<ul style="list-style-type: none"> Noise control measures will be implemented as outlined in the Construction Noise and Vibration Management Plan (Document reference REP2-044) as part of the Outline CoCP. The CoCP will be secured as a requirement of the DCO The Mona Onshore Substation will be designed to ensure compliance with operational noise limits at the nearest noise-sensitive receptors. These limits will be agreed with Denbighshire County Council (DCC) and secured as a requirement of the DCO. 	<p>C: Minor adverse O: Minor adverse D: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

1.2.21 Volume 3, Chapter 10: Air quality (APP-073)

Table 1.20: Projects, plans and activities screened into the CEA for Volume 3, Chapter 10: Air quality (APP-073).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
10.10.1/10.10.3	The impact of dust soiling (annoyance) on property arising from dust emissions generated by onsite construction and decommissioning activities.	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm Major Development 40/2017/1232. Major Development 46/2021/0159 <p>Tier 3</p>	<ul style="list-style-type: none"> Measures based on the highly recommended measures for sites with medium dust risk as set out in CoCP. 	<p>C: Negligible adverse</p> <p>D: Negligible adverse</p>
10.10.1/10.10.3	The impact of an increase in suspended particulate matter on people arising from dust emissions generated by onsite construction and decommissioning activities.	<ul style="list-style-type: none"> MaresConnect St Asaph Solar Farm NGET 31/2023/0525 		<p>C: Negligible adverse</p> <p>D: Negligible adverse</p>
10.10.1/10.10.3	The impact of an increase in suspended particulate matter on ecology arising from dust emissions generated by onsite construction and decommissioning activities			<p>C: Negligible adverse</p> <p>D: Negligible adverse</p>
10.10.1/10.10.3	The impact of an increase Nitrogen Dioxide, Particulate matter with diameters of 10 micrometres or smaller, and Particulate matter with diameters of 2.5 micrometres or smaller on people arising from dust emissions generated by		<ul style="list-style-type: none"> None 	<p>C: Negligible adverse</p> <p>D: Negligible adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
	onsite construction and decommissioning activities			

MONA OFFSHORE WIND PROJECT

1.2.22 Volume 4, Chapter 1: Aviation and radar (APP-075)

Table 1.21: Projects, plans and activities screened into the CEA for Volume 4, Chapter 1: Aviation and radar (APP-075).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
1.11.2	Creation of a physical obstacle to aircraft operations – Military and low flying operations	<p>Tier 1</p> <ul style="list-style-type: none"> • Awel y Môr Offshore Wind Farm • Burbo Bank Offshore Wind Farm Extension • Gwynt y Môr Offshore Wind Farm • North Hoyle Offshore Wind Farm • Rhyl Flats Offshore Wind Farm • Walney 1 Offshore Wind Farm • Walney 2 Offshore Wind Farm • Walney Extension 3 Offshore Wind Farm • Walney Extension 4 Offshore Wind Farm • West of Duddon Sands Offshore Wind Farm. <p>Tier 2</p> <ul style="list-style-type: none"> • Morecambe Generation Assets • Morgan Generation Assets • Moir Vannin Offshore Wind Farm. 	<ul style="list-style-type: none"> • Design Plan • Lighting and marking • Notification. 	<p>C: Minor adverse</p> <p>O: Minor adverse</p> <p>D: Minor adverse</p>
1.11.3	Wind turbines causing interference on civil PSR (Primary Surveillance Radar) systems	<p>Tier 1</p> <ul style="list-style-type: none"> • Awel y Môr Offshore Wind Farm • Barrow Offshore Wind Farm • Burbo Bank Offshore Wind Farm • Burbo Bank Offshore Wind Farm Extension • Gwynt y Môr Offshore Wind Farm 	<ul style="list-style-type: none"> • None 	<p>O: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> • North Hoyle Offshore Wind Farm • Ormonde Offshore Wind Farm • Robin Rigg Offshore Wind Farm • Rhyl Flats Offshore Wind Farm • Walney 1 Offshore Wind Farm • Walney 2 Offshore Wind Farm • Walney Extension 3 Offshore Wind Farm • Walney Extension 4 Offshore Wind Farm • West of Duddon Sands Offshore Wind Farm. <p><u>Tier 2</u></p> <ul style="list-style-type: none"> • Morecambe Generation Assets • Morgan Generation Assets • Moir Vannin Offshore Wind Farm. <p><u>Tier 3</u></p> <ul style="list-style-type: none"> • Draig y Môr Offshore Wind Farm. 		

MONA OFFSHORE WIND PROJECT

1.2.23 Volume 4, Chapter 3: Socio-economics (APP-077)

Table 1.22: Projects, plans and activities screened into the CEA for Volume 4, Chapter 3: Socio-economics (APP-077).

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
North Wales - Economic				
3.12.2	The potential impact on economic receptors including employment and GVA (Gross Value Added)	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm <p>Tier 2</p>	<ul style="list-style-type: none"> Outline Skills and Employment Plan (APP-210) 	<p>C: Moderate beneficial</p> <p>O: Moderate beneficial</p> <p>D: Moderate beneficial</p>
3.12.3	The potential impact of increased employment opportunities	<ul style="list-style-type: none"> Morgan Offshore Wind Project Generation Assets Morgan and Morecambe Offshore Windfarms Transmission Assets Morecambe Offshore Windfarm Generation Assets Moor Vannin Offshore Wind Farm. 		<p>C: Minor beneficial</p> <p>O: Moderate beneficial</p> <p>D: Minor beneficial</p>
North Wales - Social				
3.12.4	The potential impact on population, housing and accommodation	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm <p>Tier 2</p> <ul style="list-style-type: none"> Morgan Offshore Wind Project Generation Assets Morgan and Morecambe Offshore Windfarms Transmission Assets Morecambe Offshore Windfarm Generation Assets Moor Vannin Offshore Wind Farm. 	<ul style="list-style-type: none"> Outline Skills and Employment Plan (APP-210) 	<p>C: Minor beneficial</p> <p>D: Minor beneficial</p>
North Wales – Tourism				
3.12.5	The potential impact on tourism	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm 	<ul style="list-style-type: none"> N/A 	<p>C: Minor adverse</p> <p>O: Minor adverse</p>

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
		<ul style="list-style-type: none"> Deans Lane Wind Turbine HMS Eaglet, Sefton Street – Wind Turbine Rhyd-y-Groes Wind Farm repowering <p>Tier 2</p> <ul style="list-style-type: none"> Morgan Offshore Wind Project Generation Assets Morgan and Morecambe Offshore Windfarms Transmission Assets Morecambe Offshore Windfarm Generation Assets Moor Vannin Offshore Wind Farm. 		D: Minor adverse
Wales - Economic				
3.12.2	The potential impact on economic receptors including employment and GVA	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm <p>Tier 2</p> <ul style="list-style-type: none"> Morgan Offshore Wind Project Generation Assets Morgan and Morecambe Offshore Windfarms Transmission Assets Morecambe Offshore Windfarm Generation Assets Moor Vannin Offshore Wind Farm. 	<ul style="list-style-type: none"> Outline Skills and Employment Plan (APP-210) 	<p>C: Moderate beneficial</p> <p>O: Minor beneficial</p> <p>D: Minor beneficial</p>
UK - Economic				
3.12.2	The potential impact on economic receptors including employment and GVA.	<p>Tier 1</p> <ul style="list-style-type: none"> Awel y Môr Offshore Wind Farm <p>Tier 2</p> <ul style="list-style-type: none"> Morgan Offshore Wind Project Generation Assets 	<ul style="list-style-type: none"> Outline Skills and Employment Plan (APP-210) 	C: Moderate (beneficial)
3.12.6	The potential impact on the Isle of Man associated with	<ul style="list-style-type: none"> Morgan Offshore Wind Project Generation Assets 	<ul style="list-style-type: none"> None proposed. 	C: Minor adverse

MONA OFFSHORE WIND PROJECT

Section number in chapter	Impact	Projects considered	Proposed measures adopted as part of the Mona Offshore Wind Project relevant for this impact	Significance of residual effect
	potential adverse effects on lifeline ferry services	<ul style="list-style-type: none"> • Morgan and Morecambe Offshore Windfarms Transmission Assets • Morecambe Offshore Windfarm Generation Assets • Moir Vannin Offshore Wind Farm. 		<p>O: Minor adverse D: Minor adverse</p>

1.3 References

RenewableUK (2013) Cumulative Impact Assessment Guidelines – Guiding Principles for Cumulative Impact Assessment in Offshore Wind Farms.

The Planning Inspectorate (2019) Advice Note Seventeen: Cumulative effects assessment relevant to nationally significant infrastructure projects.