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Morlais Project Environmental Statement

Chapter 26: Cumulative, Transboundary and In-Combination Impact Assessment

Volume III

Applicant: Menter Môn Morlais Limited

Document Reference: PB5034-ES-026

Chapter 26: Cumulative, Transboundary and In-Combination Impact
Assessment

Author: Royal HaskoningDHV



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Morlais Project

Environmental Statement

Appendix 26.1: Projects List for Offshore CIA, Onshore CIA and Transboundary Impacts

Volume III

Applicant: Menter Môn Morlais Limited

Document Reference: PB5034-ES-0261

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GLOSSARY OF ABBREVIATIONS

CIA	Cumulative Impact Assessment
ODA	Onshore Development Area
OfDA	Offshore Development Area

GLOSSARY OF TERMINOLOGY

Cumulative Impact Assessment	The Transport and Works (Applications and Objections Procedure) (England and Wales) Rules 2006 describes as “a description of the likely significant effects of the project on the environment, including direct effects and any indirect, secondary, cumulative, transboundary, short-term, medium-term and long-term, permanent and temporary, positive and negative effects”.
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1. INTRODUCTION

1. This appendix details the projects which were considered in the Cumulative Impact Assessment (CIA) and transboundary impacts for the Morlais Project.
2. The projects within **Table 1-1** are located further afield than the vicinity of the Morlais Project (hereafter referred to as 'the Project'), including northern, western and southern Wales, western England and Scotland and the eastern coast of Northern Ireland and the Republic of Ireland. A wider search has been undertaken to cover projects that may have the potential to act cumulatively with the highly mobile receptors (i.e. marine ornithology and marine mammals) present across the Morlais Demonstration Zone (MDZ), Export Cable Corridor (ECC) (collectively referred to as the Offshore Development Area (OfDA)). The projects have been sourced from Natural Resources Wales (NRW), the Marine Management Organisation (MMO), Marine Scotland (MS), Department of Agriculture, Environment and Rural Affairs (DAERA) and Ministry of Housing, Planning, Community and Local Government (MHPCLG) for Wales, England, Scotland, Northern Ireland and the Republic of Ireland, respectively.
3. The projects list in **Table 1-2** has been sourced from the Isle of Anglesey County Council (IoACC) planning portal. Projects include residential and industrial planning applications within a 2.5 km buffer of the Onshore Development Area (ODA).
4. Each project has been assigned a status as per The Planning Inspectorate Advice Note 17 which provides guidance on plans and projects that should be considered in the CIA based on a tiered approach with decreasing levels of likely available detail:
 - Projects that are under construction;
 - Permitted applications, not yet implemented;
 - Submitted applications not yet determined;
 - Projects on the Planning Inspectorate's Programme of Projects;
 - Development identified in relevant Development Plans, with weight being given as they move closer to adoption and recognising that much information on any relevant proposals will be limited; and
 - Sites identified in other policy documents as development reasonably likely to come forward.
5. Only projects which are reasonably well described and sufficiently advanced to provide information on which to base a meaningful and robust assessment have been included in the CIA.
6. **Table 1-1** details the projects within waters surrounding the MDZ.



Table 1-1 UK and ROI list of projects screened into the cumulative and transboundary impacts for the Morlais Project

ID ¹	Project	Location	Developer	Description	Current Status	² Distance from OfDA (km)
1	Holyhead Deep Phase I	Wales	Minesto	10 MW Tidal kite installation off the coast of Holyhead, plus on land elements and grid connection. The Environmental Statement for this proposed project has been obtained. Minesto plans to start the installation of a 10MW marine energy array in 2017, subject to planning permission and Marine Licences. At this stage, it is known that onshore infrastructure and further turbines will be proposed for construction, but the details are not known (Minesto, 2016). The site will be located in the southern half of the former 'Holyhead Deep' licenced dredge disposal site. ES and HRA available: http://minesto.com/projects/holyhead-deep	Permitted application, not yet under construction	2
1	Holyhead Deep - 80MW project	Wales	Minesto	The Project includes construction, installation, commissioning, operation and maintenance, and decommissioning activities for an array of up to 160 DGUs (80 MW). The DGUs will be installed in clusters of between six and seven DGUs, with each DGU linked to a Deep Green Connection Hub (DGCH) via a subsea umbilical. Energy generated by the DGUs will be transmitted to the DGCH, before being 'stepped-up' on its way to the transmission infrastructure, a process whereby the voltage of the electricity is modified to reduce transmission losses. Each of the DGUs will require its own subsea foundation, utilising one of three options: a concrete gravity base structure, a monopile, or a mud mat foundation. Onshore aspects not discussed, intention to develop transmission infrastructure with Morlais Project.	Pre-application	2

¹ Reference relates to project ID on **Figure 26-1 (Volume II)**

² Shortest distance between the considered project and Morlais Offshore Development Area (OfDA). The OfDA encompasses the Morlais Demonstration Zone and the Export Cable Corridor



ID ¹	Project	Location	Developer	Description	Current Status	² Distance from OfDA (km)
2	Reclamation adjacent to Terminal 4 of the Port of Holyhead	Wales	Stena Line	Reclamation of approximately 0.62ha of land adjacent to Terminal 4 of the Port of Holyhead for the purpose of facilitating port development.	Pre-application	2
3	Holyhead Waterfront Redevelopment	Wales	Conygar Stena Line Ltd	A comprehensive mixed-use development on 1.2km of Holyhead waterfront at Newry Beach and Porth y Felin. This development will include 326 homes, a 500 berth marina and 50,000 sq.ft of marine related retail, leisure, restaurants hotel and office space. A Town or Village Green Public Inquiry was held in October 2016. Subsequently awaiting the outcome of a 'village green' application which may prevent the development from proceeding. An Environmental Statement is believed to have accompanied the Planning Application. At the time of writing the Environmental Statement was not available online.	Pre-application	2
4	Holyhead Harbour Maintenance Dredging	Wales	Stena Line Ports Ltd	Limited information currently available. Marine Licences non EIA – licence issued and valid until 22/12/2019.	Permitted application, not yet under construction	2
5	Holy Island Resort	Wales	Land and Lakes. Bluestone Development	Construction of a luxury holiday destination on the Penrhos Estate, including 500 lodges, restaurants, a spa and water park. The project aims to open in 2021. The need for an HRA for this project was scoped out at the start of the application process as the development did not have an adverse impact on any European designated sites.	Permitted application, not yet under construction	2.5
6	Sirius SBC	Wales	SIRIUS SBC RENEWABLES LLP	This project is for the installation of generators and associated infrastructure to provide a Short-Term Operating Reserve (STOR) facility with an anticipated capacity of approximately 48MW at Caergeiliog on Anglesey. It is not known whether an HRA will be undertaken for this project at this stage.	Pre-application	4



ID ¹	Project	Location	Developer	Description	Current Status	² Distance from OfDA (km)
7	Anglesey Eco Park Power Station	Wales	Orthios Group	Anglesey Eco Park 299MW biomass power station within the existing consented scheme, aquaculture facility, large soil-less indoor vegetable growing facility (hydroponics), home compostable food packaging facility, the CFP Centre of Excellence, research and development, and a deep-water jetty for bulk import. An application was made in August 2016 for the demolition of buildings on the site; these works commenced in October 2016. Currently two proposals are being put forward for the project, a Polymer Processing Centre and a Biomass Processing Centre. The Polymer Processing Centre will be fuelled by UK polymers and waste forestry products. The Biomass Processing Centre will process waste wood chippings to produce power and heat.	Permitted application, not yet under construction	5
8	Wind Turbine	Wales	Energy Consultants Wales	Erection of one 100kw wind turbine with a maximum hub height of up to 36m, rotor diameter of up to 24m and a maximum upright vertical tip height of up to 48m together with the construction of an access track on land near Ty'n Rallt, Bodorgan. EIA screening opinion requested from Isle of Anglesey County Council Planning Application Ref: 15C75G/SCR	Permitted application, not yet under construction	17
9	North Wales Connection Project	Wales	National Grid	A new connection for new energy generation in North Wales. Potential new generation includes the proposed Wylfa Newydd Project as well as a number of renewable energy projects. National Grid has a preferred corridor for a new electrical connection between the Wylfa substation and the Pentir substation. Environmental information is expected to be available as National Grid progress with defining their route alignment. An Environmental Statement is not expected to be available prior to Horizon's submission of the DCO application. National Grid have submitted an application to the Planning Inspectorate for a new, second line of pylons mostly in parallel to the existing line from Wylfa in Anglesey to Pentir in North Gwynedd. Where the connection crosses the Menai Strait, it is proposed that the connection is placed in a tunnel. There is also the need to make changes to the existing substations at Wylfa and Pentir (National Grid, 2018).	Withdrawn	2



ID ¹	Project	Location	Developer	Description	Current Status	² Distance from OfDA (km)
9	Wylfa Decommissioning	Wales	Magnox Limited	Decommissioning of the Existing Power Station (Wylfa) including care and maintenance of the existing facilities followed by decommissioning and final site clearance.	Decommissioning ongoing	17.5
9	Wylfa Nuclear Power Plant	Wales	Horizon Nuclear Power	Construction of new nuclear power station. The site is on land beside the former Magnox Wylfa Power Station, which is now being decommissioned.	Project Suspended	17.5
10	Rhyd-y-groes Repower	Wales	TPG Wind Limited (a joint venture between E.ON and Eurus Energy UK Ltd)	The current wind Rhyd-y-groes Wind Farm, located near the northern shores of Anglesey in Wales, has 24 turbines with a maximum total power output of 6.6MW. Proposals are to replace the current turbines with up to 11 modern turbines, which could produce up to 9.9MW of renewable energy. The Environmental Statement is available online - https://www.eonenergy.com/Abouteon/ourcompany/generation/planning-for-the-future/wind/onshore/rhyd-ygroes-repower/project-information . The construction period for the proposed development is forecast to last 12 months and the proposed decommissioning of the existing windfarm could take up to six months. There is scope for decommissioning and construction timetables to overlap. Although construction phasing is known, a start date for construction has not been set.	Permitted application, not yet under construction	18
11	Coleg Menai Llangefni	Wales	Grŵp Llandrillo Menai	This development includes proposals for a new Engineering Centre, a Scaffolding training centre and proposals for housing, restaurants and a hotel.	Permitted application, not yet under construction	20
12	M-SParc	Wales	Bangor University	M-SParc is Wales' first science park with an estimated investment of £20 million. Construction began in 2016 and the first building is now open and operational. It comprises of meeting spaces, hot desking facilities and lab/workshop space with a café for hosting larger events.	Operational	23
13	Third bridge across the Menai Straits	Wales	Welsh Government	The Welsh Government is developing this project. Meetings have been held with the Welsh Government and information has been requested. Preferred route announced. https://www.bbc.co.uk/news/uk-wales-45822960	Pre-application	27.5
14	Hafan y Mor Holiday Park	Wales		Screening and Scoping SC1814. Issued Feb 2019.	Pre-application	45



ID ¹	Project	Location	Developer	Description	Current Status	² Distance from OfDA (km)
15	West shore, Llandudno	Wales	Conwy County Borough Council	Limited information available. Wind-blown sand – licence issued and valid until 14/06/21.	Permitted application, construction status unknown	50
16	Victoria Pier	Wales	Conwy County Borough Council	Limited information available Marine Licences – Non-EIA – licence issued and valid until 08/03/21.	Permitted application, construction status unknown	57
17	East Rhyl Coastal Defence Scheme	Wales	Denbighshire County Council – East Rhyl Coastal Defence	The East Rhyl Coastal Defence Scheme will reduce the risk of coastal flooding in the Garford Road area of East Rhyl. The East Rhyl Coastal Defence Scheme is led by Denbighshire County Council, with support from the Welsh Government. Balfour Beatty has been appointed as the main contractor to deliver the Coastal Defence Scheme, and is currently working with Denbighshire County Council, and the Environmental and Engineering Consultancy JBA Consulting through early design and development works. The project will involve the construction of a rock revetment structure immediately in front of the existing sea wall, with improvements to the existing wall over a length of around four hundred metres, from Splash Point heading East. The East Rhyl Project will expand upon the recently completed flood storage works completed by Denbighshire County Council since the coastal flood event in 2013	Submitted application, not yet determined	73
18	Inspection and maintenance of Barmouth Viaduct	Wales	Network Rail Infrastructure Ltd	Limited information currently available. Marine Licences non-EIA.	Permitted application, construction status unknown	75
19	Codling Wind Park II	Ireland	Fred Olsen Renewables and Hazel Shore	Codling Bank Wind Park is a consented 220 turbine offshore wind farm. A second phase has been submitted for planning for a further 200 turbines. ES not available	Submitted application, not yet determined	75



ID ¹	Project	Location	Developer	Description	Current Status	² Distance from OfDA (km)
20	North Hoyle Offshore Windfarm, North Wales	Wales	NWP Offshore Limited	Application to carry out operation and maintenance activities at North Hoyle Offshore Wind Farm. This includes routine inspections and maintenance of wind turbine generators, foundations and transition pieces and cables of the already constructed windfarm. Parts, labour, plant for operations and maintenance will be delivered by sea from the Port of Mostyn to Rhyl Flats Wind Farm by crew transfer vessel, jack up barge or other. The operations are identified as potentially having an impact on the Liverpool Bay SPA.	Operational	81
21	Proposed New Cruise Berth	Ireland	Dun Laoghaire Harbour Company (Ireland)	Proposed New Cruise Berth For Large Cruise Ships at Dun Laoghaire Harbour Dun Laoghaire Harbour Company is seeking permission for an €18m cruise berth facility to cater for jumbo cruise ships. Planning application submitted. The accompanying Environmental Impact Statement was not obtained at the time of writing. The expected construction duration is 15 to 18 months. Although construction phasing is known the scheduled start date is unknown. Strategic Environmental Assessment statements are available online – http://dlharbour.ie/masterplan/seastatement/	Permitted application, construction status unknown	91



ID ¹	Project	Location	Developer	Description	Current Status	² Distance from OfDA (km)
22	Isle of Man Ferry Terminal	England		<p>The works associated with the proposed development requiring a marine licence include:</p> <ol style="list-style-type: none"> 1. Infilling the south-west corner of West Waterloo Dock & two small compartments of the Princes Half-Tide Dock (further info is in the 'Dock Infilling Report' Appendix 12.3 ES) 2. Capital Dredging works to River Mersey to provide a berthing pocket and approach channel 3. Disposal of dredged material to sea (Site Z (IS140), Y (IS150) or Mid-River if & as agreed with MMO during consenting process) 4. Steel linkspan bridge & floating pontoon (inc. piles) to provide vehicle & pedestrian access to the rear of the vessels 5. Hydraulic movable passenger access system (PAS) 6. Berthing dolphin (including access walkway & pile), mooring buoy, fenders, floating bollards & ladders 7. Precast 'L shaped' retaining wall structure at former West Waterloo Dock entrance. 8. Removal of upper part of West Waterloo Gate 9. Possible repairs / maintenance to dock walls (all round site) 10. Temporary pontoon during construction period 	Submitted application, not yet determined	92
23	Greater Dublin Drainage	Ireland	Irish Water	Outfall pipeline for treated material from Sewer. Located off North County Dublin, between Maynetown and Ireland's Eye extending across the following townlands in Fingal – Maynetown and Burrow. Natura Impact Statement completed	Submitted application, not yet determined	92
24	Burbo Bank Extension O&M Facility.	England	Burbo Bank	Burbo Bank Extension O&M facility Kings Wharf. Proposal to develop an operations and maintenance base for the Burbo Bank OWF extension. The Proposed Development will comprise onshore land-based development (small warehouse, office and car park). An EIA screening opinion was provided by the MMO and the MMO has confirmed that an EIA is not required for this project. The Environmental Report shows no LSE on Liverpool Bay SPA.	Permitted application, not yet under construction	95



ID ¹	Project	Location	Developer	Description	Current Status	² Distance from OfDA (km)
25	Alexandra Basin Redevelopment Project	Ireland	Dublin Port Company	Extension of infrastructure to open up Dublin Port to larger cruise and cargo ships. The port will dredge the river Liffey to increase the depth of its berths and the entrance channel from 7m to at least 10m. This will eliminate access issues caused by tides and enable large cruise and cargo ships to turn in Alexandra Basin and dock at East Link Bridge, rather than reversing up the Liffey to their berth as they do now. The project has consent. The Environmental Impact Statement is available online – http://dublinportabr.ie/eis	Permitted application, construction status unknown	96
26	West of Duddon Sands Offshore Wind Farm O&M Marine Licence	England	Ørsted West of Duddon Sands (UK) Limit	Application - Maintenance of existing works required for the operational life of the constructed windfarm. An Environmental Statement is available on the MMO public register. The Environmental Assessment concludes a negligible impact on Liverpool Bay, Liverpool Bay extension and Morecambe and Duddon Estuary SPA	Operational	114
27	Rhyl Flats Windfarm, North Wales	Wales	Rhyl Flats Wind Farm Limited	Application for operations and maintenance activities at the Rhyl Flats windfarm. This includes routine inspections and maintenance of wind turbine generators, foundations and transition pieces and cables of the already constructed windfarm. Parts, labour, plant for operations and maintenance will be delivered by sea from the Port of Mostyn to Rhyl Flats Wind Farm by crew transfer vessel, jack up barge or other. The operations are identified as potentially having an impact on the Liverpool Bay SPA.	Operational	58.8
28	Gwynt y Môr Offshore Wind Farm	Wales	Gwynt y Môr Offshore Wind Farm Ltd	Offshore Wind Farm Limited information available	Operational	65
29	Walney Extension Offshore Wind Farm Operations and Maintenance (O&M) Facilities	England		Marine licence has been granted for the maintenance of facilities for the operational life of the offshore windfarm. A HRA is available for this project on the MMO public register. The HRA states that there is no potential LSE of the works on the Morecambe Bay SPA or Duddon Estuary SPA and Ramsar site.	Operational	114



ID ¹	Project	Location	Developer	Description	Current Status	² Distance from OfDA (km)
30	Barrow Offshore Wind Farm O&M Marine Licence	England	Barrow Offshore Wind Farm Ltd	Application - Maintenance of existing works required for the operational life of the constructed windfarm. An Environmental Statement is available on the MMO public register. The Environmental Assessment concludes a negligible impact on Liverpool Bay, Liverpool Bay extension and Morecambe and Duddon Estuary SPA	Operational	116
31	New Quay Harbour and associated Beach	Wales	Ceredigion County Council	Annual harbour maintenance dredging works, involving dredging of sand to the south side of the main pier at New Quay harbour and the disposal of the dredged material for use as beach nourishment at Traeth y Dolau, within the harbour area. The sand bank is only dredged up to a maximum depth of 1 metre by means of a land based mechanical excavator and it is loaded into tractors and trailers for disposal on to another beach (Traeth y Dolau; New Quay) within the Harbour area. The works are programmed to coincide with low water to ensure that no plant need to physically enter the water.	Permitted application, construction status unknown	118.5
32	Fairhaven Lake and Church Scar Coastal Defence Scheme	England	Fylde Council	The proposed scheme is located at two discrete, but adjacent, locations; Fairhaven Lake and Church Scar, on the north bank of the Ribble estuary at Lytham St Annes, Lancashire NGR 333580, 427300 to 335710, 426870. A screening opinion has been submitted to the MMO and the project will require an EIA. The MMO Screening Opinion States that there will be a temporary disturbance (visual, noise, vibration) to bird populations during construction, in particular overwintering species designated as part of the adjacent Ribble and Alt Estuaries SPA. https://marinelicensing.marinemanagement.org.uk/mmofox5/fox/live/	Pre-application	120
33	Hesketh Out Marsh Managed Realignment Scheme	England	Environment Agency	This project is to refurbish the remaining section of flood embankment at Hesketh Out Marsh (approximately 2km) and breach the outer embankment to allow land inbetween to revert back to intertidal habitat. The project will be delivered in partnership with RSPB and Natural England. An EIA has been undertaken for the scheme. The current stage of the works is unknown. Details are on the MMO Public Register: https://marinelicensing.marinemanagement.org.uk/mmofox5/fox/live/ ES submitted to the MMO who has approved the content.	Permitted application, construction status unknown	128



ID ¹	Project	Location	Developer	Description	Current Status	² Distance from OfDA (km)
34	Tidal Turbine Testing (TTT) project - Strangford Lough	Northern Ireland	Queen's University Belfast	Two 1.5m diameter tidal turbines have been installed on the research platform. A range of acoustic Doppler instruments (ADP and ADVs) have also been deployed on the platform which enables the turbines to be located within a working area enabling up to 2.5D in-plane spacing and 4D in-line spacing.	Operational	138
35	Fishguard port linkspan replacement	Wales	Stena Line	linkspan replacement Limited information available. Screening opinion – licence not yet applied for.	Permitted application, construction status unknown	140
36	Dredge of channel at D3	Northern Ireland	Belfast Harbour Commissioners	Maintenance channel dredging at D3 Terminal, Belfast Reference: ML 149_16	Submitted application, not yet determined	163
37	D3 terminal cruise ship facility	Northern Ireland	Belfast Harbour Commissioners	Construction of Cruise Ship Facility at D3 Terminal, Belfast. Reference: ML 122_15	Submitted application, not yet determined	163
38	Linkspan replacement and civil works	Northern Ireland	Doran Consulting	VT2 Victoria Channel. Belfast Lough. ML 16_17	Withdrawn	166
39	Neyland Yacht Haven	Wales	Neyland Yacht Haven Ltd	Limited information currently available. Marine licences non- EIA – licence issued and valid until 20/11/2019	Permitted application, construction status unknown	174



ID ¹	Project	Location	Developer	Description	Current Status	² Distance from OfDA (km)
40	Marine Energy Testing Area (META), Pembroke Dock	Wales	Marine Energy Wales (Pembrokeshire Coastal Forum)	The META project consists of eight test sites where marine energy testing activities will be permitted. Five are in META Phase 1 and Three are in META Phase 2. The proposed sites have been chosen as they are accessible, yet still representative of real sea environments. The aim is to make it easier to test marine energy equipment to make sure it is working as expected. The sites are for testing only and so will not be connected to the National Grid, and devices will be in the water for between 1 – 12 months maximum. These areas will not be permanent exclusion zones. During installation and operational activity there may be buffers around devices within the areas but only in the vicinity of the test activity. https://www.marineenergywales.co.uk/meta-sites/	Pre-application	175
41	Milford Haven, Maintenance Dredge Pembrokeshire	Wales	Milford Haven Port Authority	The removal of maintenance dredge material from berths and channels within the limits of Milford Haven Port Authority, Pembrokeshire. An annual tonnage of 365,000 tonnes is being applied for. The licence is valid until 08/03/2022. A HRA has been undertaken for the works and is available from NRW.	Operational	175
42	Gas storage project	Northern Ireland	Islandmagee Storage Ltd.	Marine infrastructure for seawater abstraction and brine discharge. Islandmagee Energy Limited completed the Front End Engineering and Design (FEED) phase of the underground facility during Q4 2018 27/02/19, applicant supplied report concerning brine dispersion modelling, which included figures on rock salt sampling taken from Islandmagee. DEFRA to consider implications of this new data on updated environmental assessments (still to be presented).	Pre-application	175
43	Swansea Inner West Pier Works	Wales	Associated British Ports	Swansea West Pier is located near to the Tawe Barrage in Swansea Bay and is owned by Associated British Ports (ABP). ABP is currently exploring the option of repairing Swansea Inner West Pier by constructing a new retaining wall aligned immediately in front (seaward) of the existing pier structure. Following an appraisal of all the potential repair options for the Swansea Inner West Pier, the preferred design option is that the new structure is fronted by a driven combination pile wall.	Submitted application, not yet determined	190
45	ABP Port Talbot Dredge and Diposal	Wales	ABP	Limited information currently available. Marine Licences non EIA – licence issued and valid until 22/12/2019.	Operational	194



ID ¹	Project	Location	Developer	Description	Current Status	² Distance from OfDA (km)
46	M4 Corridor around Newport (M4CaN)	Wales	Welsh Government (Economy and Transport)	M4 Corridor around Newport (M4CaN). The proposals for the M4CaN Scheme include a new bridge crossing of the River Usk which has several commercially operated wharfs. The bridge and approach viaducts also cross the Newport Docks, owned and operated by Associated British Ports (ABP), between North and South Dock. ABP is a Statutory Undertaker and has objected to the Scheme to the Secretary of State under section 16 of the Acquisition of Land Act 1981, alleging that the scheme would cause serious detriment to the carrying on of the undertaking. The Welsh Government are proposing to provide the following works to overcome the impact of the proposed Scheme on Newport Docks: a) The phased creation of approximately 303m of new quay on the north side of South Dock; b) Refurbishment of 250m of quay on the south side of South Dock (at the eastern end of the Coal Terminal); c) Provision of a moveable bridge to facilitate mobile harbour cranes, other port equipment and HGVs to cross the extended junction cut from west to east (and vice versa) of South Dock; and d) Preparation of areas of land and provision of premises to facilitate the relocation of ABP, tenants and occupiers of the port that are affected temporarily and permanently by the scheme, including site preparation, new buildings, hardstandings and infrastructure	Permitted application, construction status unknown	220
47	Marine Renewable Tidal Array	Northern Ireland	Fair Head Tidal Energy Park Ltd	Construction of offshore tidal array: Phase 1 - 10MW offshore tidal development to be connected via an export cable to landfall at Ballycastle or in the vicinity of Murlough Bay. Phase 2 - 90MW offshore tidal development with multiple export cables to landfall.	Permitted application, construction status unknown	228
48	Oldbury	England	Horizon Nuclear Power	Oldbury Construction, operation and decommissioning of a new nuclear power station using UK ABWR technology	Project Suspended	230
49	Argyll Tidal Demonstration	England	Argyll Tidal Ltd	Argyll Tidal Demonstration Array – Mull of Kintyre, Argyll & Bute. Proposal to build a single 500kW demonstration device Argyll Tidal Array – deployment of up to 6 of the 500kW devices. Environmental Appraisal Report submitted with the marine licence application for the Argyll Tidal Demonstration Array. Documents can be found here: http://www.gov.scot/Topics/marine/licensing/marine/scoping/ArgyllTidalArray . Scoping Report and Scoping Opinion available for the Argyll Tidal Array	Permitted application, construction status unknown	225



ID ¹	Project	Location	Developer	Description	Current Status	² Distance from OfDA (km)
50	Sound of Islay Demonstration Site	Scotland	Scottish Power Renewables (UK) Ltd	Sound of Islay – West Coast of Scotland. Scottish Power Renewables has received consent to develop a Demonstration Tidal Array in the Sound of Islay, between the islands of Islay and Jura on the west coast of Scotland. The tidal array will consist of ten tidal stream generating devices that will be fully submerged on the seabed just south of Port Askaig. Environmental Assessment available this includes an Appropriate Assessment of potential impacts on European designated sites. http://www.gov.scot/Topics/marine/Licensing/marine/scoping/SoundofIslay	Permitted application, construction status unknown	270
51	Kinsale Head / Ballycotton gas fields and Seven Heads gas field	Ireland	PSE Kinsale Energy & PSE Seven Heads Limited	Decommissioning of certain facilities within the Kinsale Head and Seven Heads Petroleum Lease areas. https://www.dccae.gov.ie/en-ie/natural-resources/consultations/Pages/Further-consultation-for-the-decommissioning-of-certain-facilities-within-the-Kinsale-Head-and-Seven-Heads-Petroleum-Lease.aspx	Submitted application, not yet determined	290
52	Construction of intake/outlet pipe	Ireland	Gaelectric Energy Storage (GEAS)	Construction of intake/outlet pipe to support Gas Storage project. Reference: ML 49_13	Submitted application, not yet determined	175
53	Aberystwyth Water injection dredging	Wales	The Cardiff Marine Group	Limited information available. Marine Licence non-EIA DML1554	Operational	102
54	Liverpool Channel and River disposal licence	England	Mersey Docks Harbour Company Limited	Variation requested - The variation that is being sought would allow Site Y to accept an additional 7.95 million wet tonnes (4.2 million cubic metres) of sand from the Approach Channel over the licence period, in line with that previously assessed and requested and which is necessary to meet Peel Ports' dredge requirements. MLA/2016/00317/2.	Operational	105
55	East Lytham Flood Alleviation scheme	England	Environment Agency	Environmental impact assessment - Construction, Deposits, Dredging. A screening opinion provided by the MMO has stated that an EIA is not required for this project. Natural England has provided a comfort letter dated 21/01/2017 which states that they believe that there will be no LSE on the Ribble and Alt Estuaries sites from these works.	Permitted application, construction status unknown	114



ID ¹	Project	Location	Developer	Description	Current Status	² Distance from OfDA (km)
56	Afon Dysynni outfall gravel removal and relocation	Wales	Natural Resources Wales	Removal of accumulated stone river channel material via excavation and deposit of material on right river bank on the north shore. The maximum excavation depth will be to 1.5 m below the existing bed level and a maximum quantity to be removed is 6000 m ³ . The channel would need to be excavated back to around the position of the old training camp sewage pipe crossing. That would be approximately 150 to 200m river reach. Channel width opened to approximately 20m, at depth 1.5m. An HRA has been undertaken and is available from NRW.	Permitted application, construction status unknown	81
57	Ceredigion	Wales	Afon Teifi Fairways Ltd	Management of Moorings & Navigation to the River Teifi. – licence issued and valid until 16/06/21	Permitted application, construction status unknown	128
59	Swansea Maintenance Dredging disposal	Wales	Associated British Ports	Limited information currently available. Marine Licences non-EIA – licence issued and valid until 22/12/2019	Operational	189
59	Swansea Marina Maintenance Dredging	Wales	Swansea City Council	Limited information currently available. Marine licences non- EIA – licence issued and valid until 03/11/2019.	Operational	189
60	Amlwch LNG	Wales	Amlwch LNG (previously Cantaxx)	Amlwch LNG (Liquified Natural Gas) Tankers would import liquid gas to a mooring 3km from the Amlwch coast. The gas would then be transferred by an undersea pipeline from the mooring platform to the site near the town of Amlwch, where it would be converted back to natural gas and sent into the UK gas network. The planning application is expected to have had an accompanying Environmental Statement. At the time of writing the Environmental Statement was not available online.	Permitted application, not yet under construction	20.5
61	Visitor and Media Reception Centre	Wales	HNP	A planning application is to be submitted following completion of the construction of the Wylfa Newydd Project. No environmental information is currently available.	Project Suspended	15
62 and 63	Ireland – United Kingdom electricity interconnection	Wales	Greenlink Interconnect or Limited	Ireland – United Kingdom electricity interconnection, which aims to deliver additional transmission capacity between Ireland and United Kingdom. The Greenwire Interconnector would connect between Great Island, Wexford County and Pembrokeshire	Permitted application, not yet under construction	178



ID ¹	Project	Location	Developer	Description	Current Status	² Distance from OfDA (km)
64	West of Islay Tidal Energy Park	Scotland	DP Marine Energy Ltd and DEMA Blue Energy	The project aims to install a 30 MW array off the West Coast of Islay, covering approximately 2km ² of seabed. The development site lies approximately 6km off the Rinns of Islay. The long term goal is to expand the array, eventually producing a project providing up to 400 MW. The design envelope considers two device types, the first being a twin rotor system with blades capable of 180 degree rotation to optimise on flood and ebb tidal streams. The rotor diameter would be typically up to 20m. The second system is a bi-directional ducted tidal turbine with direct drive to a permanent magnet generator.	Permitted application, construction status unknown	280
65	Enlli Tidal Energy Scheme, Bardsley Island	Wales	Nova Innovation and YnNi Llŷn	An Agreement for Lease was awarded in summer 2017. The project would include up to 20 100 kW turbines. A full EIA will be carried out as part of the consenting process. An EIA Scoping opinion was issued by NRW in November 2018.	Pre-application	53
NA	Welsh National Marine Plan	Wales	Welsh Government	The Welsh National Marine Plan (WNMP) is currently being prepared by the Welsh Government in accordance with the Marine and Coastal Access Act 2009 (MCAA) ¹ . The purpose of marine planning under the MCAA is to help achieve sustainable development in the marine area. Welsh Ministers are the Marine Planning Authority under the MCAA, responsible for creating marine plans for both the inshore region (0-12 nautical miles) and offshore region (beyond 12 nautical miles) of Wales.	In draft	0



7. **Table 1-2** details the projects within 3 km of the ODA, predominantly on Holy Island.

Table 1-2 Long list of projects within the vicinity of the ODA, screened into the cumulative impacts for the Morlais Project

Project	IoACC Online Reference ³	Description	Current Status	Distance from ODA (km) ⁴
Holyhead Premier Inn	MAO/2019/1	Minor amendments to scheme previously approved under planning permission 19C842E/1/TR/ECON so as to amend the plans of the approved scheme	Operational	0
Parc Cybi industrial development	FPL/2018/25	Erection of a building to be used as a builder's merchant with warehouse and sales floor areas (general use), construction of a new vehicular site access, storage yard, loading areas together with soft and hard landscaping areas at Parc Cybi	Submitted application, not yet determined	0
Roadking Parc Cybi – Hotel development	19C842M/1/ECON	Full application for the erection of a hotel ancillary to the existing truck stop, with associated car parking, alteration to the vehicular access, drainage infrastructure and other associated works on land adjacent to Roadking, Parc Cybi, Holyhead. Application to discharge conditions relating to planning permission 19C842M/1/ECON submitted on 16/01/2019	Permitted application, construction status unknown	0
Alterations and extensions to residential property	FPL/2019/23	Full application for the subdivision of existing dwelling into two dwellings together with alterations and extensions at Cefn Coch, Bae Treaddur Bay	Permitted application, construction status unknown	0
Change of use to residential property	FPL/2018/58	Full application for the change of use part of the existing garage into a self-contained annexe at Maes y Geiniog, Penrhos Feilw, Caergybi / Holyhead	Permitted application, construction status unknown	0.25

³ Reference relates to project ID on **Figure 26-2 (Volume II)**

⁴ Shortest distance between the considered project and Morlais Onshore Development Area (ODA)



Project	IoACC Online Reference ³	Description	Current Status	Distance from ODA (km) ⁴
Penrhos Coastal Park	RM/2018/6	Reserved matters application including details of the appearance, landscaping, layout and scale for raised boardwalk footways within woodlands to provide locations for artworks, pond edge access and viewing decks, outdoor learning area, bird and squirrel feeding locations, bird watching hides, picnic area enhancement, interpretation and directional signage, cycle parking, vehicle access turning and parking, waste storage and collection bins on part of the publically accessible area approved under outline planning permission 46C427K/TR/EIA/ECON at the Penrhos Coastal Park, Holyhead at Land and Lakes Penrhos Coastal Park Holyhead. http://democracy.anglesey.gov.uk/documents/s9055/EnclosureDD.pdf	Permitted application, construction status unknown	0.35
Conversion of outbuilding	FPL/2018/55	Full application for the conversion of outbuilding into a holiday accommodation together with the installation of a package treatment plant at Penrhyn Owen	Permitted application, construction status unknown	0.4
Amendments to construction at industrial unit	MAO/2018/1	Minor amendments to scheme previously approved under planning permission 19C689P/1/VAR so as to amend the materials at Uned/Units 6 / 8, Parc Ddiwyddianol Penrhos Industrial Estate, Caergybi / Holyhead	Permitted application, construction status unknown	0.4
Penrhos Industrial Estate	FPL/2019/55	Full application for the erection of a 3 industrial units for B2 (General Industrial) and B8 (Storage and Distribution) purposes including associated drainage and retrospective permission for the retention of the 2.4 metre security fencing on land at Block D Stad Ddiwydiannol Penrhos Industrial Estate, Caergybi/Holyhead	Submitted application, not yet determined	0.5
Amendments to construction at industrial unit	19C779N/VAR	Application under Section 73 for the variation of conditions (02) (non-food retail) and (12) (as approved drawings) of planning permission reference 19C779A and condition (01) (non-food retail) of planning application 19C779J (Erection of a A1 class retail) so as to allow the sale and display of convenience and comparison goods together with the formation of one unit in lieu of two units at Uned 1 ag Uned 2 /	Permitted application, construction status unknown	0.6



Project	IoACC Online Reference ³	Description	Current Status	Distance from ODA (km) ⁴
		Unit 1 and Unit 2, Parc Busnes Penrhos Business Park, Caergybi / Holyhead		
Discharge of conditions for residential properties	DIS/2019/15	Application to discharge condition (04) (Construction Environmental Management Plan) from planning permission 46C410H on land adjacent to Garreg Fawr, Lôn Garreg Fawr, Trearddur.	Permitted application, construction status unknown	0.6
Amendments to construction of residential properties	MAO/2019/10	Minor amendments to scheme previously approved under planning permission 46C410F so as to amend the bay windows of type B dwellings on plots 2, 3, 4 & 9 on land adjacent to Lon Garreg Fawr Road, Trearddur	Permitted application, construction status unknown	0.6
Construction and demolition works to residential property	FPL/2019/26	Full application for the demolition of existing outbuilding and field shelter together with the erection of replacement outbuilding and agricultural shed at Goferydd, Caergybi/Holyhead	Permitted application, construction status unknown	0.7
Change of use and alternations to industrial building	FPL/2018/14	Full application for the change of use of former Penrhos Hire Shop into two individual office units with storage, change of use of external workshop into covered car parking area for staff of offices together with alterations at 11-13 Ffordd Llundain/London Road, Caergybi/Holyhead	Permitted application, construction status unknown	0.9
Alterations and extensions to residential property	HHP/2018/44	Full application for alterations and extensions at Minffordd, Llanfawr Road, Caergybi / Holyhead	Permitted application, construction status unknown	0.9



Project	IoACC Online Reference ³	Description	Current Status	Distance from ODA (km) ⁴
Construction and demolition works to residential property	HHP/2018/5	Full application for the creation of dormer window together with the demolition of the existing garage and the erection of a new garage in lieu at Pen Tywyn, Ffordd Penrhos Beach Road, Caergybi / Holyhead	Permitted application, construction status unknown	0.9
Alterations and extensions to residential property	HHP/2018/34	Full application for alterations and extensions at 30 Hunters Chase, Bae Trearddur Bay	Permitted application, construction status unknown	0.9
Alterations, construction and extensions to residential property	HHP/2018/8	Full application for alterations and extensions, erection of a detached garage together with the creation of a new vehicular access at 8 Stryd Herbert/Herbert Street, Caergybi/Holyhead	Permitted application, construction status unknown	1
Discharge of conditions for demolition and construction works	DIS/2019/24	Application for discharge of conditions (04) (Construction Traffic Management Plan), (06) (provision of affordable housing) and (07) (detailed plan for the communal garden) of planning application FPL/2018/4 (full application for demolition of the existing garages together with the erection of 4 single person dwellings with associated parking) at Maes yr Ysgol, Caergybi / Holyhead	Permitted application, construction status unknown	1
Discharge of conditions for caravan site	DIS/2019/57	Application to discharge planning conditions (03) (schedule for the colour and finish of replacement units) and (07) (external lighting) of planning application 46C14V/1 (placement of 14 static caravans and the relocation of 46 touring caravans) at The Cliff Caravan Park, Bae Trearddur Bay	Submitted application, not yet determined	1
Alterations and extensions to residential property	HHP/2019/101	Full application for alterations and extensions at 25 Ffordd Beibio, Caergybi / Holyhead	Permitted application, construction status unknown	1.1



Project	IoACC Online Reference ³	Description	Current Status	Distance from ODA (km) ⁴
Installation of play area	FPL/2019/146	Full application for change of use of vacant land to play area which includes the installation of play equipment at Parc Peibio, Morawelon, Caergybi/Holyhead	Submitted application, not yet determined	1.1
Alterations and extensions to residential property	HHP/2019/38	Full application for alterations and extensions at Glyndor, Ffordd Penrallt Road, Bae Trearddur Bay	Permitted application, construction status unknown	1.1
Discharge of conditions for full application for six flats and demolition works	DIS/2019/31	Application to discharge conditions (07) (Construction Traffic Management Plan), (10) (scheme of landscaping and tree planting), (13) (full details of all external materials and finishes), (14) (proposed slab levels of the buildings) and (15) (means of enclosure) of planning permission 19C886D (demolition of the existing building together with the erection of 6 new flats in lieu) at Gwynfa Hall, Ffordd Longford Road, Caergybi / Holyhead	Permitted application, construction status unknown	1.2
Alterations and extensions to residential property	HHP/2019/46	Full application for alterations and extensions at Plashyfyrd Terrace Caergybi/Holyhaed	Permitted application, construction status unknown	1.2
Alterations and extensions to residential property	HHP/2019/104	Full application for alterations and extensions at Bryn Awelon 8 Plas Road Caergybi/Holyhead	Submitted application, not yet determined	1.2
Variation of condition to residential property	VAR/2019/31	Application under Section 73 for the variation of condition (01) (Development to begin within 5 years of the date of permission) and (05) (Approved Plans) of planning permission reference 46C512B (Demolition of existing dwelling and erection of replacement dwelling) so as to allow a further two years to commence works together with amending the design of the proposed replacement dwelling at Morannedd Bach, 70 Ffordd Trearddur Road, Bae Trearddur Bay	Submitted application, not yet determined	1.2



Project	IoACC Online Reference ³	Description	Current Status	Distance from ODA (km) ⁴
Trearddur Bay Hotel	46C149N/ECON/FR , DIS/2018/13	Discharging of conditions (02) (scheme for a pedestrian footway), (04) (lighting scheme), (05) (habitat management plan) and (06) (landscaping scheme) of planning application 46C149N/ECON/FR relating to full application for erection of 27 holiday cottages, 9 garden rooms as an extension to hotel accommodation, reception office building, creation of new vehicular and pedestrian access with landscaping at Trearddur Bay Hotel, Lon Isallt, Trearddur Bay	Permitted application, construction status unknown	1.3
Holyhead Port	FPL/2018/1	Full application for the development of a short term holding facility (Class C2a) at Pothladd Caergybi / Holyhead port	Submitted application, not yet determined	1.3
Construction of garage for residential property	HHP/2019/65	Full application for erection of a detached garage at Minnesota, Pentre Pella, Caergybi / Holyhead	Submitted application, not yet determined	1.4
Minor construction at a residential property	LUE/2019/5	Application for a Lawful Development Certificate for the existing use of land and buildings for the erection of a dwelling and garage at Plot 1 The Rise, Bae Trearddur Bay	Submitted application, not yet determined	1.4
Alterations and extensions to residential property	HHP/2019/122	Full application for alterations and extensions which include a patio area at Westlands, Gors Avenue, Caergybi / Holyhead	Submitted application, not yet determined	1.5
Change of use for office building	FPL/2019/92	Full application for the change of use from offices (Use class B1) to clinic (Use class D1) at 4 Williams Street, Caergybi/Holyhead	Submitted application, not yet determined	1.5
Alterations and extensions to residential property	HHP/2019/142	Full application for alterations and extensions at Little Kingsmead, Lon Towyn Capel, Bae Trearddur Bay	Submitted application, not yet determined	1.5



Project	IoACC Online Reference ³	Description	Current Status	Distance from ODA (km) ⁴
Alterations and extensions to residential property	HHP/2019/33	Full application for alterations and extensions which include a balcony at Penmorfa, Lon St Ffraid, Bae Trearddur Bay	Permitted application, construction status unknown	1.5
Alterations, demolition and extensions to residential property	HHP/2019/97	Full application for alterations and extensions which include the demolition of the existing garage together with the erection of a new garage in lieu at Sandown House, Lon St Ffraid, Bae Trearddur Bay	Permitted application, construction status unknown	1.5
Alterations and extensions to residential property	HHP/2019/103	Full application for alterations and extensions at Greystones, Lon St. Ffraid, Bae Trearddur Bay	Submitted application, not yet determined	1.5
Breakwater Country Park	FPL/2019/50	Full application for alterations and extensions together with the creation of heritage play area and associated landscaping at Breakwater Country Park, Caergybi / Holyhead	Submitted application, not yet determined	1.6
Full application for six dwellings	DIS/2019/30	Application to discharge conditions (05) (scheme of landscaping and tree planting), (08) (full details of all external materials and finished), (09) (recorded and photos of the existing gate pillars), (15) (Construction Traffic Management Plan), (20) (provision of affordable housing) and (22) (plan to eradicate Japanese Knotweed) of planning permission 19LPA1043A/CC (full application for the erection of 6 affordable dwellings) at Vulcan Street, Caergybi / Holyhead	Permitted application, construction status unknown	1.6
Alterations to Eglwys St Cybi's Church	FPL/2018/46	Full application for the re-glazing the windows together with the replacement of the existing gate with a glass door at Eglwys St Cybi's Church, Caergybi / Holyhead	Permitted application, construction status unknown	1.6
Alterations and extensions to residential property	HHP/2019/84	Full application for alterations and extensions at 19 Llainfain, Caergybi/Holyhead	Submitted application, not yet determined	1.7



Project	IoACC Online Reference ³	Description	Current Status	Distance from ODA (km) ⁴
Alterations, demolition and extensions to residential property	HHP/2019/109	application for alterations and extensions together with demolition of the existing garage and erection of a garage in lieu at The Pines, 7 Gors Avenue, Holyhead	Permitted application, construction status unknown	1.7
Alterations and extensions to residential property	HHP/2019/29	Full application for alterations and extensions at 59 Garreglwyd Park, Holyhead	Permitted application, construction status unknown	1.7
Alterations and extensions to residential property	FPL/2019/65	Full application for alterations and extensions at Craig Hyfryd, Caergybi/Holyhead	Submitted application, not yet determined	1.7
Holyhead	FPL/2018/57	Full application for the erection of 46 dwellings together with the creation of a new vehicular access on land adjacent to Parc Tyddyn Beach	Submitted application, not yet determined	1.8
Discharge of conditions for hotel	DIS/2018/9	Application to discharge condition (04) (Boundary treatment) (05) (Cross sections) (06) (Emergency flood plan) from planning permission 46C85P/FR at The Beach Motel, Bae Treaddur Bay	Permitted application, construction status unknown	1.8
Alterations and extensions to residential property	HHP/2019/31	Full application for alterations and extensions at 1 Trehwa Crescent, South Stack Road	Permitted application, construction status unknown	1.9
Discharge of conditions for campsite	DIS/2019/35	Application to discharge conditions (02) (full details of internal access roads and their levels, surfacing materials and drainage) and (03) (details of hard standings and parking areas for each log cabin) of planning application 46C263M (siting of 11 log cabins) at Maes Carafannau Tyn Towyn Caravan Park, Lon St Ffraid, Bae Trearddur Bay	Submitted application, not yet determined	1.9



Project	IoACC Online Reference ³	Description	Current Status	Distance from ODA (km) ⁴
Minor construction at a residential property	FPL/2019/96	Full application for the demolition of the existing dwelling together with the erection of a new dwelling in lieu which includes a balcony at Plas Bach, Ravenspoint Road, Bae Trearddur Bay	Permitted application, construction status unknown	1.9
Alterations and extensions to residential property	HHP/2018/2	Full application for alterations and extensions including a balcony at Little Summer Hill, Bae Treaddur / Treaddur Bay	Permitted application, construction status unknown	1.9
A5025 Highway	27C106E/FR/ECON	Full application for improvements to the existing highway (A5025) between A5 East of Valley Junction to the proposed Wylfa Power Station Access Road Junction at eight separate locations together with reconstruction and localised widening of existing pavement and surface dressing, temporary construction compound including temporary pavement recycling facility, creation of 2 attenuation ponds and maintenance access, creation/temporary diversion of cycle routes, creation of alternative parking facilities to mitigate loss of layby together with other associated works including drainage, boundary treatments, planting, new signage and road markings	Permitted application, construction status unknown	2.5

2. REFERENCES

The Planning Inspectorate (2015) Advice Note Seventeen: Cumulative effects assessment relevant to nationally significant infrastructure projects