



Awel y Môr Offshore Wind Farm

Table of Environmental Statement Conclusions

Deadline 1

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1 Introduction

- 1 In the Examining Authority's (ExA) first written questions (Q1s), question reference 0.12 requests the following:

"Please provide a summary table listing the likely significant residual effects identified within the ES Chapters."

- 2 Awel Y Môr Offshore Wind Farm Limited (the Applicant) has compiled a series of tables summarising the predicted and potential effects as identified in each chapter of the Environmental Statement.
- 3 Where a significant effect has been identified anywhere within a cell, the cell has been coloured grey to highlight this.
- 4 Both offshore and onshore topics are covered and have been split for ease of navigation.

2 Offshore Effects

Table 1: Summary of predicted effects on Marine Geology, Oceanography and Physical Processes.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|---|-------------------------|------------------------------------|-----------------|
| CONSTRUCTION | | | | |
| Potential changes to suspended sediment concentrations, bed levels and sediment type/ character arising from construction related activities including dredging, drilling and cable installation. | (Pathway) | (Pathway) | (No mitigation measures necessary) | (Pathway) |
| Potential changes to Constable Bank/ Rhyl Flats and designated sites owing to the combined influence of sediment removal activities e.g. dredging and sandwave clearance. | Low | Medium | (No mitigation measures necessary) | Minor (adverse) |
| Potential changes to Constable Bank/ Rhyl Flats, designated sites and the adjacent coast, arising from dredging/ disposal induced bed level change and associated modification of waves, tides and sediment transport. | Negligible | Medium | (No mitigation measures necessary) | Minor (adverse) |
| Potential changes to Constable Bank/ Rhyl Flats, designated sites and the adjacent coast, arising from blockage effects associated with (partially) installed infrastructure. | Low (for Liverpool Bay SPA) Negligible (for all other receptors) | Medium | (No mitigation measures necessary) | Minor (adverse) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|---|-------------------------|------------------------------------|-----------------|
| Potential changes to the coast arising from HDD and trenching at the landfall | Low | Medium | (No mitigation measures necessary) | Minor (adverse) |
| Potential for long-term changes to the coast arising from the use of cable protection at the landfall. | Negligible | Medium | (No mitigation measures necessary) | Minor (adverse) |
| Potential for long-term changes to the coast arising from cable protection within nearshore areas. | Low | Medium | (No mitigation measures necessary) | Minor (adverse) |
| OPERATION | | | | |
| Potential for scour of seabed sediments, including that around scour protection structures. | (Pathway) | (Pathway) | (No mitigation measures necessary) | (Pathway) |
| Potential for changes to Constable Bank/ Rhyl Flats and designated sites arising from modification of the tidal regime | Low (for Liverpool Bay SPA) Negligible (for Constable Bank and Rhyl Flats) | Medium | (No mitigation measures necessary) | Minor (adverse) |
| Potential for changes to Constable Bank/ Rhyl Flats, designated sites and the adjacent coast arising from modification of the wave regime | Negligible | Medium | (No mitigation measures necessary) | Minor (adverse) |
| Potential for changes to Constable Bank/ Rhyl Flats, designated sites and the adjacent coast arising from modification of the sediment transport regime | Negligible | Medium | (No mitigation measures necessary) | Minor (adverse) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|--|-------------------------|------------------------------------|-----------------|
| Potential for changes to the coast arising from any modification of Constable Bank and Rhyl Flats. | Negligible | Medium | (No mitigation measures necessary) | Minor (adverse) |
| DECOMMISSIONING | | | | |
| Potential changes to suspended sediment concentrations, bed levels and sediment type. | (Pathway) | (Pathway) | (No mitigation measures necessary) | (Pathway) |
| Potential changes to the coast arising from cable removal at the landfall. | Minor | Medium | (No mitigation measures necessary) | Minor (adverse) |
| CUMULATIVE EFFECTS | | | | |
| Potential for cumulative temporary increases in SSC and seabed levels as a result of AyM foundation installation and aggregate dredging | (Pathway) | (Pathway) | (No mitigation measures necessary) | (Pathway) |
| Potential for cumulative temporary increases in SSC and seabed levels as a result of AyM foundation installation and dredge spoil disposal at licensed disposal grounds | (Pathway) | (Pathway) | (No mitigation measures necessary) | (Pathway) |
| Potential for cumulative changes in hydrodynamics, waves and sediment transport arising from interaction proposed Round 4 OWF projects | [Not assessed; insufficient project information currently available] | | | |
| Potential for cumulative changes in hydrodynamics, waves and sediment transport arising from | Negligible | Medium | (No mitigation measures necessary) | Minor (adverse) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|--|-------------------------|---------------------|-----------------|
| interaction with Flagstaff Tidal Lagoon | | | | |
| Potential for cumulative changes in hydrodynamics, waves and sediment transport arising from interaction with new coastal defence works | [Not assessed; insufficient project information currently available] | | | |

Table 2: Summary of predicted effects on Marine Water and Sediment Quality.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR(S) | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|------------|------------------------------------|---|---------------------------------|
| CONSTRUCTION | | | | |
| Deterioration in water quality due to suspension of sediments | Low | Bathing Waters – Medium | No additional mitigation measures identified. | Minor adverse (not significant) |
| | | WFD waterbodies - Low | | Minor adverse (not significant) |
| | | Non-designated waters – negligible | | Negligible (not significant) |
| Release of sediment-bound contaminants from disturbed sediments | Low | Bathing Waters – N/A | No additional mitigation measures identified. | N/A |
| | | WFD waterbodies - Low | | Minor adverse (not significant) |
| | | Non-designated waters – negligible | | Negligible (not significant) |
| Deterioration in water clarity due to the release of drilling mud | Low | Bathing Waters – Medium | No additional mitigation measures identified. | Minor adverse (not significant) |
| | | WFD waterbodies - Low | | Negligible (not significant) |
| | | Non-designated waters - Negligible | | Negligible (not significant) |
| Accidental releases or spills of materials or chemicals during construction | Negligible | Bathing Waters – Medium | No additional mitigation measures identified. | Minor adverse (not significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR(S) | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|------------|------------------------------------|---|--------------------------------------|
| | | WFD waterbodies - Low | | Minor adverse (not significant) |
| | | Non-designated waters – Negligible | | Negligible (not significant) |
| OPERATION | | | | |
| Deterioration in water quality due to suspension of sediments from scour | Negligible | Bathing Waters – N/A | No additional mitigation measures identified. | N/A |
| | | WFD waterbodies - Low | | Negligible (not significant) |
| | | Non-designated waters - Negligible | | Negligible (not significant) |
| Deterioration in water quality due to suspension of sediments from O&M activities | Low | Bathing Waters – Medium | No additional mitigation measures identified. | Minor adverse (not significant) |
| | | WFD waterbodies - Low | | Minor adverse (not significant) |
| | | Non-designated waters - Negligible | | Negligible (not significant) |
| Accidental releases or spills of materials or chemicals during operation | Negligible | Bathing Waters – Medium | No additional mitigation measures identified. | Minor adverse (not significant) |
| | | WFD waterbodies - Low | | Negligible adverse (not significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR(S) | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|------------|-------------------------------------|---|---------------------------------|
| | | Non-designated waters - Negligible | | Negligible (not significant) |
| DECOMMISSIONING | | | | |
| Deterioration in water quality due to suspension of sediments | Low | Bathing Waters – Medium | No additional mitigation measures identified. | Minor adverse (not significant) |
| | | North Wales coastal waterbody - Low | | Minor adverse (not significant) |
| | | Non-designated waters - Negligible | | Negligible (not significant) |
| Accidental releases or spills of materials or chemicals during decommissioning | Negligible | Bathing Waters – Medium | No additional mitigation measures identified. | Minor adverse (not significant) |
| | | WFD waterbodies - Low | | Negligible (not significant) |
| | | Non-designated waters - Negligible | | Negligible (not significant) |
| CUMULATIVE EFFECTS | | | | |
| Cumulative deterioration in water quality due to suspension of sediments | Low | Bathing Waters – Medium | No additional mitigation measures identified. | Minor adverse (not significant) |
| | | WFD waterbodies - Low | | Minor adverse (not significant) |
| | | Non-designated waters - Negligible | | Negligible (not significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR(S) | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|-----------|------------------------------------|---|---------------------------------|
| Cumulative release of sediment-bound contaminants from disturbed sediments | Low | Bathing Waters – N/A | No additional mitigation measures identified. | N/A |
| | | WFD waterbodies - Low | | Minor adverse (not significant) |
| | | Non-designated waters - Negligible | | Negligible (not significant) |

Table 3: Summary of predicted effects on Offshore Ornithology.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|-------------------|-------------------------|---|---------------------------------------|
| CONSTRUCTION | | | | |
| Disturbance and displacement: array | Negligible | Low to High | N/A | Negligible to Minor (Not Significant) |
| Disturbance and displacement: offshore ECC | Negligible | Low to High | N/A | Negligible to Minor (Not Significant) |
| Indirect impacts: array | Negligible | Low to High | N/A | Negligible to Minor (Not Significant) |
| Indirect impacts: offshore ECC | Negligible | Low to High | N/A | Negligible to Minor (Not Significant) |
| OPERATION | | | | |
| Disturbance and displacement: array | Negligible | Low to High | N/A | Negligible to Minor (Not Significant) |
| Disturbance and displacement: offshore ECC | Negligible | Low to High | N/A | Negligible to Minor (Not Significant) |
| Collision risk: array | Negligible to Low | Low to Medium | Minimum lower blade tip above MHWS: 22 m (in line with RYA requirements (RYA, 2015)). | Negligible to Minor (Not Significant) |
| Barrier effects: array | Negligible | Low | N/A | Negligible to Minor (Not Significant) |
| Lighting: array | Negligible | Low | N/A | Negligible to Minor (Not Significant) |
| Indirect impacts: array | Negligible | Low to High | N/A | Negligible to Minor (Not Significant) |
| Indirect impacts: offshore ECC | Negligible | Low to High | N/A | Negligible to Minor (Not Significant) |
| DECOMMISSIONING | | | | |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|-------------------|-------------------------|---|---------------------------------------|
| Disturbance and displacement: array | Negligible | Low to High | N/A | Negligible to Minor (Not Significant) |
| Disturbance and displacement: offshore ECC | Negligible | Low to High | N/A | Negligible to Minor (Not Significant) |
| Indirect impacts: array | Negligible | Low to High | N/A | Negligible to Minor (Not Significant) |
| Indirect impacts: offshore ECC | Negligible | Low to High | N/A | Negligible to Minor (Not Significant) |
| CUMULATIVE EFFECTS | | | | |
| Disturbance and displacement | Negligible to Low | Low to High | N/A | Negligible to Minor (Not Significant) |
| Collision risk | Negligible to Low | Low to Medium | Minimum lower blade tip above MHWS: 22 m (in line with RYA requirements (RYA, 2015)). | Negligible to Minor (Not Significant) |

Table 4: Summary of predicted effects on Benthic Subtidal and Intertidal Ecology.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|--------------------|-------------------------|---|--------------------------------------|
| CONSTRUCTION | | | | |
| Temporary habitat disturbance (in the AyM array area and offshore ECC). | Low adverse | Low | None proposed beyond existing comments. | Minor adverse (not significant) |
| Temporary habitat disturbance (in the intertidal). | Low adverse | Not sensitive to Low | None proposed beyond existing comments. | Minor adverse (not significant) |
| Temporary increase in SSC and associated sediment deposition (in the ECC and array). | Low adverse | Not sensitive to Low | None proposed beyond existing comments. | Minor adverse (not significant) |
| Temporary increase in SSC and associated deposition (in the intertidal). | Low adverse | Not sensitive to Medium | None proposed beyond existing comments. | Minor adverse (not significant) |
| Direct and indirect seabed disturbances leading to the release of sediment contaminants. | Negligible adverse | Low | None proposed beyond existing comments. | Negligible adverse (not significant) |
| Increased risk of introduction or spread of Invasive Non-Native Species (INNS) | Negligible adverse | Low | None proposed beyond existing comments. | Negligible adverse (not significant) |
| Long-term habitat loss/ change from the presence of foundations, scour protection and cable protection. | Negligible adverse | Medium | None proposed beyond existing comments. | Minor adverse (not significant) |
| OPERATION | | | | |
| Colonisation of the WTGs and scour / cable protection may affect benthic ecology and biodiversity. | Negligible adverse | Medium | None proposed beyond existing comments. | Minor adverse (not significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|--------------------|-------------------------|---|--------------------------------------|
| Increased risk of introduction or spread of Marine Invasive Non-Native Species (MINNS) due to presence of infrastructure and vessel movements (e.g. the discharge of ballast water) may affect benthic ecology and biodiversity. | Negligible adverse | Low | None proposed beyond existing comments. | Negligible adverse (not significant) |
| Temporary habitat disturbance associated with maintenance. | Negligible adverse | Low | None proposed beyond existing comments. | Minor adverse (not significant) |
| Changes to seabed habitats arising from effects on physical processes, including scour effects and changes in the sediment transport and wave regimes resulting in potential effects on benthic communities. | Negligible adverse | Low | None proposed beyond existing comments. | Negligible adverse (not significant) |
| Indirect disturbance of benthic species from Electromagnetic Fields (EMF) generated by inter-array and export cables | Negligible adverse | Low | None proposed beyond existing comments. | Negligible adverse (not significant) |
| DECOMMISSIONING | | | | |
| Temporary habitat disturbance from decommissioning of foundations, cables and rock protection. | Low adverse | Low | None proposed beyond existing comments. | Minor adverse (not significant) |
| Increased SSC and sediment deposition from removal of foundations, cables and rock protection. | Low adverse | Not sensitive to Low | None proposed beyond existing comments. | Minor adverse (not significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|---------------------------|-------------------------|---|---|
| Loss of introduced habitat from the removal of foundations and rock protection. | Low adverse | Low | None proposed beyond existing comments. | Minor adverse (not significant) |
| CUMULATIVE EFFECTS | | | | |
| Cumulative temporary habitat loss/disturbance | Low adverse | Low | None proposed beyond existing comments. | Minor adverse (not significant) |
| Cumulative temporary increase in SSC and sediment deposition | Low adverse | Low | None proposed beyond existing comments. | Minor adverse (not significant) |
| Cumulative long-term habitat loss/change from presence of foundations and scour protection and cable protection | Negligible adverse | Medium | None proposed beyond existing comments. | Minor adverse (not significant) |
| Cumulative colonisation of the WTGs and scour/ cable protection, including by INNS, may affect benthic ecology and biodiversity | Negligible to low adverse | Low | None proposed beyond existing comments. | Negligible to minor adverse (not significant) |

Table 5: Summary of predicted effects on Fish and Shellfish Ecology.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|--------------------------------------|-------------------------|---------------------|--|
| CONSTRUCTION | | | | |
| Mortality, injury, behavioural impacts and auditory masking arising from noise and vibration | Group 1 – Low adverse | Low | N/A | Minor adverse (not significant) |
| | Group 2 – Low adverse | Low | | Minor adverse (not significant) |
| | Group 3 – Low adverse | Medium | | Minor adverse (not significant) |
| | Eggs and larvae – Low adverse | Medium | | Minor adverse (not significant) |
| | Shellfish – Low adverse | Medium | | Minor adverse (not significant) |
| Temporary increase in SSC and sediment deposition | All fish species – low adverse | Low | N/A | Minor adverse (not significant) |
| | Crab, lobster, scallop – low adverse | Medium | | Minor adverse (not significant) |
| | Nephrops - low adverse | Low | | Minor adverse (not significant) |
| Direct damage (e.g. crushing) and disturbance to mobile demersal and pelagic fish and shellfish arising from construction activities | Sandeel – Low adverse | Medium | N/A | Minor adverse (not significant) |
| | All other fish – negligible adverse | Negligible | | Negligible adverse (not significant) |
| | Lobster – low adverse | Low | | Minor adverse (not significant) |
| | All other shellfish – low adverse | Medium | | Minor adverse (not significant) |
| Direct and indirect seabed disturbances leading to the release of sediment contaminants | Negligible adverse | Low - Medium | N/A | Negligible – Minor adverse (not significant) |
| Impacts on fishing pressure due to displacement | Negligible adverse | Negligible | N/A | Negligible adverse (not significant) |
| OPERATION | | | | |
| Long-term loss of habitat due to the presence of turbine | Sandeel – Low adverse | Medium | N/A | Minor adverse (not significant) |
| | All other fish – Negligible adverse | Low | | Minor adverse (not significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|--|-------------------------|---------------------|--|
| foundations, scour protection and cable protection | Crab, <i>Nephrops</i> – Negligible adverse | Medium | | Minor adverse (not significant) |
| | All other shellfish - Negligible adverse | Low | | Minor adverse (not significant) |
| Increased hard substrate and structural complexity as a result of the introduction of turbine foundations, scour protection and cable protection | Sandeel – Low adverse | Medium | N/A | Minor adverse (not significant) |
| | All other fish – Low adverse | Low | | Minor adverse (not significant) |
| | Shellfish - Low adverse | Low | | Minor adverse (not significant) |
| Impacts on fishing pressure due to displacement | Low adverse | Negligible | N/A | Negligible adverse (not significant) |
| EMF effects arising from cables during operational phase | Low adverse | Low | N/A | Minor adverse (not significant) |
| DECOMMISSIONING | | | | |
| Mortality, injury, behavioural changes and auditory masking arising from noise and vibration | Negligible adverse | As for construction | N/A | Negligible – Minor adverse (not significant) |
| Temporary increase in SSC and sediment deposition | As for construction | As for construction | N/A | Minor adverse (not significant) |
| Direct and indirect seabed disturbances leading to the release of sediment contaminants | As for construction | As for construction | N/A | Negligible – Minor adverse (not significant) |
| Direct damage (e.g. crushing) and disturbance to mobile demersal and pelagic fish and | As for construction | As for construction | N/A | Negligible – Minor adverse (not significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|--------------------|-------------------------|---------------------|--------------------------------------|
| shellfish arising from construction activities | | | | |
| Impacts on fishing pressure due to displacement | Negligible adverse | Negligible | N/A | Negligible adverse (not significant) |
| CUMULATIVE EFFECTS | | | | |
| Mortality, injury, behavioural changes and auditory masking arising from noise and vibration | Low adverse | Medium | N/A | Minor adverse (not significant) |
| Temporary increase in SSC and sediment deposition | Low adverse | Medium | N/A | Minor adverse (not significant) |

Table 6: Summary of predicted effects on Marine Mammals.

| IMPACT | SPECIES | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|--------------------|----------------------|-------------------------|---|-----------------------------------|
| CONSTRUCTION | | | | | |
| PTS from piling | Harbour porpoise | Negligible (adverse) | Low | None beyond embedded mitigation (piling MMMP) | Negligible (adverse) significance |
| | Bottlenose dolphin | | | | |
| | Risso's dolphin | | | | |
| | Minke whale | | | | |
| | Grey seal | | Negligible | | |
| Disturbance from piling | Harbour porpoise | Low (adverse) | Low | None beyond embedded mitigation (piling MMMP) | Minor (adverse) significance |
| | Bottlenose dolphin | Medium (adverse) | | | |
| | Risso's dolphin | Low (adverse) | | | |
| | Minke whale | Low (adverse) | | | |
| | Grey seal | Medium (adverse) | Negligible | | Negligible (adverse) significance |
| Disturbance from other construction activities | Harbour porpoise | Low (adverse) | Low | None | Minor (adverse) significance |
| | Bottlenose dolphin | | | | |
| | Risso's dolphin | | | | |
| | Minke whale | | | | |
| | Grey seal | | Negligible | | Negligible (adverse) significance |
| PTS from UXO | Harbour porpoise | Negligible (adverse) | Low | None beyond embedded mitigation (UXO MMMP) | Negligible (adverse) significance |
| | Bottlenose dolphin | | | | |
| | Risso's dolphin | | | | |
| | Minke whale | | | | |
| | Grey seal | | Negligible | | |

| | | | | | |
|--|--------------------|----------------------|------------|--|-----------------------------------|
| Disturbance from UXO | Harbour porpoise | Low (adverse) | Low | None beyond embedded mitigation (UXO MMMP) | Minor (adverse) significance |
| | Bottlenose dolphin | Medium (adverse) | | | |
| | Risso's dolphin | Low (adverse) | | | |
| | Minke whale | Low (adverse) | | | |
| | Grey seal | Medium (adverse) | Negligible | | |
| Collision risk from vessels | All | Negligible (adverse) | High | None beyond embedded mitigation | Minor (adverse) significance |
| Disturbance from vessels | Harbour porpoise | Low (adverse) | Low | None beyond embedded mitigation | Minor (adverse) significance |
| | Bottlenose dolphin | | | | |
| | Risso's dolphin | | | | |
| | Minke whale | | | | |
| | Grey seal | | Negligible | | Negligible (adverse) significance |
| Change in water quality | All | Negligible (adverse) | Negligible | None | Negligible (adverse) significance |
| Change in fish abundance/ distribution | All | Negligible (adverse) | Low | None | Negligible (adverse) significance |
| OPERATION | | | | | |
| Barrier effects | All | Negligible (adverse) | Negligible | None | Negligible (adverse) significance |
| Collision risk from vessels | All | Negligible (adverse) | High | None | Minor (adverse) significance |
| Disturbance from vessels | Harbour porpoise | Low (adverse) | Low | None beyond embedded mitigation | Minor (adverse) significance |
| | Bottlenose dolphin | | | | |
| | Risso's dolphin | | | | |
| | Minke whale | | | | |

| | | | | | |
|---|-----------|----------------------|------------|------|-----------------------------------|
| | Grey seal | | Negligible | | Negligible (adverse) significance |
| Change in water quality | All | No impact pathway | | | |
| Change in fish abundance/ distribution | All | Negligible (adverse) | Low | None | Negligible (adverse) significance |

DECOMMISSIONING

| | | | | | |
|---|--------------------|--|------------|---------------------------------|-----------------------------------|
| PTS & disturbance | All | Assumed similar or lesser extent than piling | | | |
| Collision risk from vessels | All | Negligible (adverse) | High | None beyond embedded mitigation | Minor (adverse) significance |
| Disturbance from vessels | Harbour porpoise | Low (adverse) | Low | None beyond embedded mitigation | Minor (adverse) significance |
| | Bottlenose dolphin | | | | |
| | Risso's dolphin | | | | |
| | Minke whale | | | | |
| | Grey seal | | Negligible | | Negligible (adverse) significance |
| Change in water quality | All | Negligible (adverse) | Negligible | None | Negligible (adverse) significance |
| Change in fish abundance/ distribution | All | Negligible (adverse) | Low | None | Negligible (adverse) significance |

CUMULATIVE EFFECTS

| | | | | | |
|-----------------------------------|--------------------|------------------|------------|---|------------------------------|
| Disturbance from underwater noise | Harbour porpoise | Low (adverse) | Low | None beyond embedded mitigation (piling MMMP) | Minor (adverse) significance |
| | Bottlenose dolphin | Medium (adverse) | | | |
| | Risso's dolphin | | | | |
| | Minke whale | | | | |
| | Grey seal | | Negligible | | |
| | Harbour porpoise | Screened out | | | Screened out |

| | | | | | |
|--------------------------|--------------------|----------------------|-----|---------------------------------|-----------------------------------|
| Disturbance from vessels | Bottlenose dolphin | | | None beyond embedded mitigation | |
| | Risso's dolphin | Negligible (adverse) | Low | | Negligible (adverse) significance |
| | Minke whale | Low (adverse) | | | Minor (adverse) significance |
| | Grey seal | Screened out | | | Screened out |

Table 7: Summary of potential effects on Commercial fisheries.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|----------------------------|----------------------------|--|---|
| CONSTRUCTION | | | | |
| AyM array area construction activities and physical presence of constructed wind farm infrastructure leading to reduction in access to, or exclusion from established fishing grounds | Potting fleet: Medium | Potting fleet: Medium | Development of Fisheries Liaison Plan (FLP), including cooperation agreements and associated payments. | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Negligible | None proposed beyond existing commitments (Section 9.9) | Netting fleet: Negligible (Not Significant) |
| | Dredging fleet: Medium | Dredging fleet: Low | | Dredging fleet: Minor adverse (Not Significant) |
| AyM offshore export cable construction activities and physical presence of constructed wind farm infrastructure leading to reduction in access to, or exclusion from established fishing grounds | Potting fleet: Medium | Potting fleet: Medium | Development of FLP, including cooperation agreements and associated payments. | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Medium | Netting fleet: Low | None proposed beyond existing commitments (Section 9.9) | Netting fleet: Minor adverse (Not Significant) |
| | Dredging fleet: Low | Dredging fleet: Negligible | | Dredging fleet: Negligible (Not Significant) |
| Displacement from AyM array area leading to gear conflict and increased fishing pressure on adjacent grounds | Potting fleet: Low | Potting fleet: Medium | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Negligible | Netting fleet: Negligible | | Netting fleet: Negligible (Not Significant) |
| | Dredging fleet: Negligible | Dredging fleet: Negligible | | Dredging fleet: Negligible (Not Significant) |
| Displacement from AyM offshore ECC leading to gear conflict and increased fishing pressure on adjacent grounds | Potting fleet: Low | Potting fleet: Low-Medium | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Low | | Netting fleet: Minor adverse (Not Significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|----------------------------|----------------------------|---|---|
| | Dredging fleet: Negligible | Dredging fleet: Negligible | | Dredging fleet: Negligible (Not Significant) |
| AyM array area and offshore ECC construction activities leading to disturbance of commercially important fish and shellfish resources leading to displacement or disruption of fishing activity | Potting fleet: Low | Potting fleet: Low | See measures set out in Volume 2, Chapter 6: Fish and shellfish ecology | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Low | | Netting fleet: Minor adverse (Not Significant) |
| | Dredging fleet: Low | Dredging fleet: Low | | Dredging fleet: Minor adverse (Not Significant) |
| Increased vessel traffic associated with AyM within fishing grounds leading to interference with fishing activity | Potting fleet: Low | Potting fleet: Low-Medium | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Low | | Netting fleet: Minor adverse (Not Significant) |
| | Dredging fleet: Low | Dredging fleet: Negligible | | Dredging fleet: Negligible (Not Significant) |
| Additional steaming to alternative fishing grounds for vessels that would otherwise fish within the AyM area | Potting fleet: Low | Potting fleet: Low | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Low | | Netting fleet: Minor adverse (Not Significant) |
| | Dredging fleet: Low | Dredging fleet: Negligible | | Dredging fleet: Negligible (Not Significant) |
| OPERATION | | | | |
| Physical presence of AyM array area infrastructure leading to reduction in access to, or exclusion from established fishing grounds | Potting fleet: Medium | Potting fleet: Low | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Negligible | Netting fleet: Negligible | | Netting fleet: Negligible (Not Significant) |
| | Dredging fleet: Medium | Dredging fleet: Low | | Dredging fleet: Minor adverse (Not Significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|----------------------------|-------------------------------|---|---|
| Physical presence of offshore export cable and infrastructure within the AyM offshore ECC leading to reduction in access to, or exclusion from established fishing grounds | Potting fleet: Low | Potting fleet: Low | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Low | | Netting fleet: Minor adverse (Not Significant) |
| | Dredging fleet: Negligible | Dredging fleet: Negligible | | Dredging fleet: Negligible (Not Significant) |
| Displacement from AyM array area and offshore ECC leading to gear conflict and increased fishing pressure on adjacent grounds | Potting fleet: Low | Potting fleet: Medium | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Negligible-Low | | Netting fleet: Negligible-Minor Adverse (Not Significant) |
| | Dredging fleet: Negligible | Dredging fleet: Negligible | | Dredging fleet: Negligible (Not Significant) |
| AyM operation and maintenance activities leading to displacement or disruption of commercially important fish and shellfish resources | Potting fleet: Low | Potting fleet: Low | See measures set out in Volume 2, Chapter 6: Fish and shellfish ecology | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Low | | Netting fleet: Minor adverse (Not Significant) |
| | Dredging fleet: Low | Dredging fleet: Low | | Dredging fleet: Minor adverse (Not Significant) |
| Increased vessel traffic within fishing grounds as a result of changes to shipping routes and maintenance vessel traffic from AyM leading to interference with fishing activity | Potting fleet: Low | Potting fleet: Low-Medium | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Low-Medium | | Netting fleet: Minor adverse (Not Significant) |
| | Dredging fleet: Low | Dredging fleet: Negligible | | Dredging fleet: Negligible (Not Significant) |
| Additional steaming to alternative fishing grounds for | Potting fleet: Low | Potting fleet: Low | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|-----------------------|----------------------------|---|---|
| vessels that would otherwise fish within the AyM area | Netting fleet: Low | Netting fleet: Low | | Netting fleet: Minor adverse (Not Significant) |
| | Dredging fleet: Low | Dredging fleet: Negligible | | Dredging fleet: Negligible (Not Significant) |
| Physical presence of AyM array area infrastructure leading to gear snagging | Potting fleet: Low | Potting fleet: Low | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Low | | Netting fleet: Minor adverse (Not Significant) |
| | Dredging fleet: Low | Dredging fleet: Medium | | Dredging fleet: Minor adverse (Not Significant) |
| Physical presence of the export cable and associated infrastructure leading to gear snagging | Potting fleet: Low | Potting fleet: Low | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Low | | Netting fleet: Minor adverse (Not Significant) |
| | Dredging fleet: Low | Dredging fleet: Low | | Dredging fleet: Minor adverse (Not Significant) |
| DECOMMISSIONING | | | | |
| AyM array area decommissioning activities leading to reduction in access to, or exclusion from, potential and/or established fishing grounds | Potting fleet: Medium | Potting fleet: Medium | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Negligible | | Netting fleet: Negligible (Not Significant) |
| | Dredging fleet: Low | Dredging fleet: Negligible | | Dredging fleet: Negligible (Not Significant) |
| AyM offshore ECC decommissioning activities leading to reduction in access | Potting fleet: Medium | Potting fleet: Low | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Medium | Netting fleet: Low | | Netting fleet: Minor adverse (Not Significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|----------------------------|----------------------------|---|---|
| to, or exclusion from established fishing grounds | Dredging fleet: Low | Dredging fleet: Negligible | | Dredging fleet: Negligible (Not Significant) |
| Displacement from AyM array area leading to gear conflict and increased fishing pressure on adjacent grounds | Potting fleet: Low | Potting fleet: Medium | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Negligible | Netting fleet: Negligible | | Netting fleet: Negligible (Not Significant) |
| | Dredging fleet: Negligible | Dredging fleet: Negligible | | Dredging fleet: Negligible (Not Significant) |
| Displacement from the AyM offshore ECC leading to gear conflict and increased fishing pressure on adjacent grounds | Potting fleet: Low | Potting fleet: Low-Medium | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Low | | Netting fleet: Minor adverse (Not Significant) |
| | Dredging fleet: Negligible | Dredging fleet: Negligible | | Dredging fleet: Negligible (Not Significant) |
| Decommissioning activities leading to displacement or disruption of commercially important fish and shellfish resources | Potting fleet: Low | Potting fleet: Low | See measures set out in Volume 2, Chapter 6: Fish and shellfish ecology | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Low | | Netting fleet: Minor adverse (Not Significant) |
| | Dredging fleet: Low | Dredging fleet: Low | | Dredging fleet: Minor adverse (Not Significant) |
| Increased vessel traffic within fishing grounds as a result of changes to shipping routes and transiting decommissioning vessel traffic from AyM array area and AyM offshore ECC leading to interference with fishing activity | Potting fleet: Low | Potting fleet: Low-Medium | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Low-Medium | | Netting fleet: Minor adverse (Not Significant) |
| | Dredging fleet: Low | Dredging fleet: Negligible | | Dredging fleet: Negligible (Not Significant) |
| Additional steaming to alternative fishing grounds for | Potting fleet: Low | Potting fleet: Low | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|---------------------------|----------------------------|---|---|
| vessels that would otherwise fish within the AyM area | Netting fleet: Low | Netting fleet: Low | | Netting fleet: Minor adverse (Not Significant) |
| | Dredging fleet: Low | Dredging fleet: Negligible | | Dredging fleet: Negligible (Not Significant) |
| Physical presence of any infrastructure left in situ leading to gear snagging | Potting fleet: Low | Potting fleet: Low | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Minor adverse (Not Significant) |
| | Netting fleet: Low | Netting fleet: Low | | Netting fleet: Minor adverse (Not Significant) |
| | Dredging fleet: Low | Dredging fleet: Low-Medium | | Dredging fleet: Minor adverse (Not Significant) |
| CUMULATIVE EFFECTS | | | | |
| Reduction in access to, or exclusion from established fishing grounds | Potting fleet: Negligible | Potting fleet: Negligible | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Negligible (Not Significant) |
| | Netting fleet: Negligible | Netting fleet: Negligible | | Netting fleet: Negligible (Not Significant) |
| | Dredging fleet: Medium | Dredging fleet: Low | | Dredging fleet: Minor adverse (Not Significant) |
| Displacement leading to gear conflict and increased fishing pressure on established fishing grounds | Potting fleet: Negligible | Potting fleet: Negligible | None proposed beyond existing commitments (Section 9.9) | Potting fleet: Negligible (Not Significant) |
| | Netting fleet: Negligible | Netting fleet: Negligible | | Netting fleet: Negligible (Not Significant) |
| | Dredging fleet: Medium | Dredging fleet: Low | | Dredging fleet: Minor adverse (Not Significant) |

Table 8: Summary of predicted effects on Shipping and Navigation.

| IMPACT | FREQUENCY OF OCCURRENCE | SEVERITY OF CONSEQUENCE | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|-------------------------|-------------------------|--|--|
| CONSTRUCTION | | | | |
| Increased vessel-to-vessel collision risk between third-party vessels resulting from displacement and proximity to routeing measures | Reasonably probable | Negligible | n/a | Broadly acceptable (not significant in EIA terms) |
| Restriction of adverse weather routeing | Extremely unlikely | Moderate | n/a | Broadly acceptable (not significant in EIA terms) |
| Increased vessel-to-vessel collision risk between a third-party vessel and a project vessel | Frequent | Minor | n/a | Tolerable (not significant in EIA terms) |
| Vessel-to-structure powered allision risk | Extremely unlikely | Serious | Discussions and agreement with Trinity House in relation to siting of the Met Mast and any necessary additional mitigations. | Tolerable with mitigation (not significant in EIA terms assuming implementation of additional mitigations) |
| Vessel-to-structure drifting allision risk | Extremely unlikely | Serious | n/a | Tolerable (not significant in EIA terms) |
| Reduced access to local ports | Extremely unlikely | Minor | n/a | Broadly acceptable (not significant in EIA terms) |
| Reduction of SAR capability due to increased incident rates and reduced access for surface / air responders | Negligible | Serious | n/a | Broadly acceptable (not significant in EIA terms) |
| OPERATION | | | | |
| Increased vessel-to-vessel collision risk between third-party vessels resulting from | Reasonably probable | Negligible | n/a | Broadly acceptable (not significant in EIA terms) |

| IMPACT | FREQUENCY OF OCCURRENCE | SEVERITY OF CONSEQUENCE | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|-------------------------|-------------------------|--|--|
| displacement and proximity to routeing measures | | | | |
| Restriction of adverse weather routeing | Extremely unlikely | Moderate | n/a | Broadly acceptable (not significant in EIA terms) |
| Increased vessel-to-vessel collision risk between a third-party vessel and a project vessel | Reasonably probable | Minor | n/a | Broadly acceptable (not significant in EIA terms) |
| Vessel-to-structure powered allision risk | Extremely unlikely | Serious | Discussions and agreement with Trinity House in relation to siting of the Met Mast and any necessary additional mitigations. | Tolerable with mitigation (not significant in EIA terms assuming implementation of additional mitigations) |
| Vessel-to-structure drifting allision risk | Extremely unlikely | Serious | n/a | Tolerable (not significant in EIA terms) |
| Reduced access to local ports | Extremely unlikely | Minor | n/a | Broadly acceptable (not significant in EIA terms) |
| Reduction of SAR capability due to increased incident rates and reduced access for surface / air responders | Extremely unlikely | Serious | Agreement of layout with MCA post consent informed by pre consent discussions. | Tolerable with mitigation (not significant in EIA terms assuming implementation of additional mitigations) |
| Reduction in under keel clearance resultant of cable protection | Extremely unlikely | Moderate | n/a | Broadly acceptable (not significant in EIA terms) |
| Anchor interaction with subsea cables | Extremely unlikely | Moderate | n/a | Broadly acceptable (not significant in EIA terms) |
| DECOMMISSIONING | | | | |
| Increased vessel-to-vessel collision risk between third-party vessels resulting from displacement and proximity to routeing measures | Reasonably probable | Negligible | n/a | Broadly acceptable (not significant in EIA terms) |

| IMPACT | FREQUENCY OF OCCURRENCE | SEVERITY OF CONSEQUENCE | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|-------------------------|-------------------------|---------------------|---|
| Restriction of adverse weather routing | Extremely unlikely | Moderate | n/a | Broadly acceptable (not significant in EIA terms) |
| Increased vessel-to-vessel collision risk between a third-party vessel and a project vessel | Reasonably probable | Minor | n/a | Broadly acceptable (not significant in EIA terms) |
| Vessel-to-structure powered collision risk | Negligible | Serious | n/a | Broadly acceptable (not significant in EIA terms) |
| Vessel-to-structure drifting collision risk | Negligible | Serious | n/a | Broadly acceptable (not significant in EIA terms) |
| Reduced access to local ports | Extremely unlikely | Minor | n/a | Broadly acceptable (not significant in EIA terms) |
| Reduction of SAR capability due to increased incident rates and reduced access for surface / air responders | Negligible | Serious | n/a | Broadly acceptable (not significant in EIA terms) |
| CUMULATIVE EFFECTS | | | | |
| Increased vessel-to-vessel collision risk between third-party vessels resulting from displacement and proximity to routing measures | Reasonably probable | Negligible | n/a | Broadly acceptable (not significant in EIA terms) |
| Restriction of adverse weather routing | Extremely unlikely | Moderate | n/a | Broadly acceptable (not significant in EIA terms) |
| Increased vessel-to-vessel collision risk between a third-party vessel and a project vessel | Extremely unlikely | Major | n/a | Broadly acceptable (not significant in EIA terms) |
| Vessel-to-structure powered collision risk | Negligible | Serious | n/a | Broadly acceptable (not significant in EIA terms) |

| IMPACT | FREQUENCY OF OCCURRENCE | SEVERITY OF CONSEQUENCE | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|-------------------------|-------------------------|---------------------|---|
| Vessel-to-structure drifting allision risk | Negligible | Serious | n/a | Broadly acceptable (not significant in EIA terms) |
| Reduced access to local ports | Extremely unlikely | Minor | n/a | Broadly acceptable (not significant in EIA terms) |
| Reduction of SAR capability due to increased incident rates and reduced access for surface / air responders | Negligible | Serious | n/a | Broadly acceptable (not significant in EIA terms) |
| Reduction in under keel clearance resultant of cable protection | Extremely unlikely | Moderate | n/a | Broadly acceptable (not significant in EIA terms) |
| Anchor interaction with subsea cables | Extremely unlikely | Moderate | n/a | Broadly acceptable (not significant in EIA terms) |

Table 9: Summary of potential effects on Seascape, Landscape and Visual receptors (MDS A).

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
|--|-------------------------|--|---|--|--|
| DIRECT IMPACTS ON SEASCAPE CHARACTER | | | | | |
| SCA F - North Wales Open Waters | Medium-low | Medium-low | None | Non-significant, adverse, short term temporary | Non-significant, adverse, short term temporary |
| SCA 28 - North-east of Anglesey | Medium | Medium | Array Area has been reduced within this SCA. | Significant, adverse, short term temporary in the eastern part of the SCA in and around the AyM array area and southwards towards the Great Orme. Not significant, short term, temporary elsewhere within the SCA. | Significant, adverse, short term temporary in the eastern part of the SCA in and around the AyM array area and southwards towards the Great Orme. Not significant, short term, temporary elsewhere within the SCA. |
| IMPACTS RESULTING FROM VISIBILITY OF THE AYM OWF WITHIN THE SEASCAPE | | | | | |
| VP1: Bull Bay near Amlwch – Wales Coast Path | High | Low | Array Area reduced in size increasing the separation distance from this VP. | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| VP2: Point Lynas - PRow to north of lighthouse | High | Low | Array Area reduced in size increasing the separation distance from this VP. | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| VP3: Mynydd Eilian - near trig point | Medium-high | Low | Array Area reduced in size increasing the separation distance from this VP. | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| VP 4: Moelfre Headland at sculpture (Daytime) | Medium-high | Medium-low | Array Area reduced in size increasing the separation distance from this VP. | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 4: Moelfre Headland at sculpture (Night-time) | Medium-high | Medium-low (operation) | Array Area reduced in size increasing the | NA | Significant, adverse, long term, reversible |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
|--|-------------------------|--|--|---|---|
| | | | separation distance and the Horizontal FoV from this VP. | | |
| VP5: Red Wharf Bay | High | Medium-low | Array Area reduced in size increasing the separation distance and reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP6: Bwrdd Arthur - north of trig point | High | Medium | Array Area reduced in size increasing the separation distance and the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 7: Penmon Point - north-east of parking | High | Medium | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 8: Beaumaris - Wales Coast Path | High | Medium | No change | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 9: Bangor Pier (Southern End) | Medium-high | Medium-low | No change | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 10: Carnedd Llewelyn | High | Medium-low | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 11: Llanfairfechan | Medium-high | Medium | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
|--|-------------------------|--|--|---|---|
| VP 12: Conwy Mountain | Medium-high | Medium | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 13: Great Orme - near summit complex | Medium-high | Medium-high | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 13: Great Orme - near summit complex (Night-time) | Medium | Medium (operation) | Array Area reduced in size reducing the Horizontal FoV from this VP | NA | Significant, adverse, long term, reversible |
| VP 14: Wales Coast Path near Penrhyn (Traeth yr Ora) | High | Medium-low | Array Area reduced in size increasing the separation distance and reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 16: Benlech Bay View Road | Medium-high | Medium-low | Array Area reduced in size increasing the separation distance and reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 17: Penrhyn Castle terrace | Medium-high | Medium-low | Array Area reduced in size reducing the Horizontal FoV from this VP | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| VP 18: Llandudno paddling pool | Medium-high | Medium-high | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
|--|-------------------------|--|---|---|---|
| VP 20: Bryn Euryn | Medium-high | Medium | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 21: Mynydd Marian | Medium-high | Medium | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 22: Abergele promenade | Medium-high | Medium-low | Array Area reduced in size reducing the Horizontal FoV from this VP | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| VP 22: Abergele promenade (Night-time) | Medium | Low (operation) | Array Area reduced in size reducing the Horizontal FoV from this VP | NA | Non-significant, adverse, long term, reversible |
| VP 23: Rhyl Aquarium | Medium-high | Low | Array Area reduced in size reducing the Horizontal FoV from this VP | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| VP 24: Graig Fawr | High | Low | Array Area reduced in size reducing the Horizontal FoV from this VP | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| VP 25: Prestatyn Nova Centre | Medium-high | Low | Array Area reduced in size reducing the Horizontal FoV from this VP | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| VP 27: Point of Ayr | Medium-high | Low | Array Area reduced in size reducing the | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
|--|-------------------------|--|---|---|---|
| | | | Horizontal FoV from this VP | | |
| VP 28: Trwyn y Penrhyn parking layby | Medium-high | Medium | No change | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 29: Colwyn Bay promenade | Medium-high | Medium-high | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 30: Snowdon summit | Medium-high | Low | Array Area reduced in size reducing the Horizontal FoV from this VP | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| VP 36: Tal y Fan | Medium-high | Medium-low | Array Area reduced in size reducing the Horizontal FoV from this VP | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| VP 37: Cefn Coch Stone Circle | Medium-high | Medium-low | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 38: Foel Fras | High | Medium-low | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 40: Above Capelulo – North Wales Path | Medium-high | Medium | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 42: Mynydd Bodafon - Trig Point | High | Low | Array Area reduced in size increasing the | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
|---|-------------------------|--|--|---|---|
| | | | separation distance and reducing the Horizontal FoV from this VP | | |
| VP 44: Beaumaris Castle | Medium-high | Low | No change | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| VP 59: Llandundo promenade - lifeboat slipway | Medium-high | Medium | No change | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 60: Foel Lus (Night-time) | Medium | Medium-low (operation) | Array Area reduced in size reducing the Horizontal FoV from this VP | NA | Non-significant, adverse, long term, reversible |
| Amlwch | Medium | Low | Array Area reduced in size increasing the separation distance from this VP. | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| Moelfre | Medium-high | Medium-low | Array Area reduced in size increasing the separation distance from this VP. | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| Benllech | Medium-high | Medium-low | Array Area reduced in size increasing the separation distance and reducing the Horizontal FoV from this VP | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| Llanddona | Medium-high | Medium-low | Array Area reduced in size increasing the separation distance and the Horizontal FoV from this VP | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
|----------------|--|---|---|---|--|
| Beaumaris | Medium-high | Medium-low | None | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| Bangor | Medium | Medium-low | None | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| Llanfairfechan | Medium-high for seaside properties, low for those without direct views across the sea. | Medium for seaside properties/ amenities, low or negligible for those without direct views across the sea. | Array Area reduced in size increasing the separation distance from this VP. | Significant, adverse, short term temporary for seaside properties/amenities. Not significant elsewhere within the settlement. | Significant, adverse, long term, reversible for seaside properties/amenities. Not significant elsewhere within the settlement. |
| Penmaenmawr | Medium-high | Medium | Array Area reduced in size increasing the separation distance from this VP. | Significant, adverse, short term temporary. | Significant, adverse, long term, reversible |
| Dwygfylchi | Medium-high | Medium-low | Array Area reduced in size increasing the separation distance from this VP. | Significant, adverse, short term temporary. | Significant, adverse, long term, reversible |
| Llandudno | Medium-high | Medium-high in the east of the bay and Medium reducing to no change in the west of the bay. Elsewhere in Llandudno the magnitude of change would be low or no change. | Array Area reduced in size increasing the separation distance from this VP. | Significant, adverse, short term temporary along the bay frontage. Not significant elsewhere. | Significant, adverse, long term, reversible along the bay frontage. Not significant elsewhere. |
| Penrhyn Bay | Medium-high | Medium-high along the sea front properties in Penrhyn Bay. Elsewhere in Penrhyn Bay the magnitude of change would be low or no change. | No change | Significant, adverse, short term temporary along the Penrhyn Bay frontage. Not significant elsewhere. | Significant, adverse, short term temporary along the Penrhyn Bay frontage. Not significant elsewhere. |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
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| Rhos-on-Sea | Medium-high | Medium-high from the north facing sea front properties in Rhos-on-Sea. Elsewhere in Rhos-on-Sea the magnitude of change would be lower or no change. | | Significant, adverse, short term temporary along the north facing Rhos-on-Sea frontage. Not significant elsewhere. | Significant, adverse, long term, reversible along the north facing Rhos-on-Sea frontage. Not significant elsewhere. |
| Colwyn Bay | Medium-high | Medium-high from the sea facing properties along the promenades in Colwyn Bay. Elsewhere in Colwyn Bay the magnitude of change would be lower or no change. | | Significant, adverse, short term temporary from the sea facing properties along the promenades in Colwyn Bay. Not significant elsewhere. | Significant, adverse, long term, reversible from the sea facing properties along the promenades in Colwyn Bay. Not significant elsewhere. |
| Llanddulas | Medium | Medium-low from the sea facing properties on elevated high ground. Elsewhere the magnitude of change low or negligible. | | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| Abergele and Pensarn | Medium or low/negligible. | Medium-low for seaside properties/ amenities, low or negligible for those without direct views across the sea. | | Non-significant, adverse, short term temporary. | Non-significant, adverse, long term, reversible |
| Towyn and Kinmel Bay | Medium or low/ negligible. | Medium-low for seaside properties/ amenities, low or negligible for those without direct views across the sea. | | Non-significant, adverse, short term temporary. | Non-significant, adverse, long term, reversible |
| Rhyl | Medium or low/negligible. | Low for seaside properties/ amenities, low or negligible for those without direct views across the sea. | | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| Prestatyn | Medium | Medium-low for a limited area of seaside properties/ | | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
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| | | amenities, low or negligible for those without direct views across the sea or where visibility is across the intervening urban area. | | | |
| WCP: Section A Llanlleiana Head | Medium-high | Low | Array Area reduced in size increasing the separation distance from this Section | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| WCP Section B Amlwch | Medium-high | Low | Array Area reduced in size increasing the separation distance from this Section | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| WCP Section C Dulas Bay | High | Medium-low | Array Area reduced in size increasing the separation distance and the Horizontal FoV from this Section | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| WCP Section D Moelfre | High | Medium-low | Array Area reduced in size increasing the separation distance and the Horizontal FoV from this section | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| WCP Section E Red Wharf Bay/Penmon | High | Medium-low west of Bwrydd Arthur and Medium to the east of Bwrydd Arthur. | Array Area reduced in size increasing the separation distance and reducing the Horizontal FoV from this section | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| WCP Section F Penmon Point | High | Medium | Array Area reduced in size reducing the | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
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| | | | Horizontal FoV from this section | | |
| WCP Section G Menai Strait | High | Low | None | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| WCP Section H Lavan Sands | Medium-high | Medium to medium-low | Array Area reduced in size reducing the Horizontal FoV from this section | Significant, adverse, short term temporary along the 8km, open coastal section of the route to the east of Penrhyn Castle east to Llanfairfechan. Not significant elsewhere along the route. | Significant, adverse, long term, reversible along the 8km, open coastal section of the route to the east of Penrhyn Castle east to Llanfairfechan. Not significant elsewhere along the route. |
| WCP Section I Conwy Mountain | Medium-high. | Medium along the 1.5km section of the route at Foel Lus and Medium along the 1.5km section at Conwy Mountain. Medium-low or no change elsewhere. | Array Area reduced in size reducing the Horizontal FoV from this section | Significant, adverse, short term, temporary over a combined length of approximately 3km across the side slopes of Foel Lus and along the ridge of Conwy Mountain. Not significant along the other parts of this route. | Significant, adverse, long term, reversible over a combined length of approximately 3km across the side slopes of Foel Lus and along the ridge of Conwy Mountain. Not significant along the other parts of this route. |
| WCP Section J Conwy Bay | Medium | Medium at Llanfairfechan reducing to Low-medium | Array Area reduced in size reducing the Horizontal FoV from this section | Non-significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| WCP Section K Conwy/ Creuddyn peninsula | Medium-high | Medium for 0.8km section at north-western extent of Great Orme. Low magnitude to no change elsewhere along the route. | Array Area reduced in size reducing the Horizontal FoV from this section | Significant, adverse, short term temporary along 0.8km section at north-western extent of Great Orme. Not significant elsewhere along the route. | Significant, adverse, long term, reversible short term temporary along 0.8km section at north-western extent of Great Orme. Not significant elsewhere along the route. |
| WCP Section L Great Orme | Medium-high | Medium-high for 2.5km section along northern edge of Great Orme. Low magnitude to no | Array Area reduced in size reducing the | Significant, adverse, short term temporary along 2.5km section on northern edge of Great | Significant, adverse, long term, reversible along 2.5km section on northern edge of Great Orme. |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
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| | | change elsewhere along the route. | Horizontal FoV from this section | Orme. Not significant elsewhere along the route. | Not significant elsewhere along the route. |
| WCP Section M Llandudno | Medium-high | Medium-high for 2.5km section along Llandudno promenade, Colwyn Road and northern edge of Great Orme. Low magnitude to no change elsewhere along the route. | Array Area reduced in size reducing the Horizontal FoV from this section | Significant, adverse, short term temporary along 2.5km section of Llandudno promenade, Colwyn Road and northern edge of Great Orme. Not significant elsewhere along the route. | Significant, adverse, long term, reversible along 2.5km section of Llandudno promenade, Colwyn Road and northern edge of Great Orme. Not significant elsewhere along the route. |
| WCP Section N Penrhyn Bay | Medium | Medium-high for 3.5km section where there are open views from along the Penrhyn and Rhos Bays and headland at Rhos Point. Lower magnitude to no change elsewhere along the route. | No change | Significant, adverse, short term temporary for 3.5km section where there are open views from along the Penrhyn and Rhos Bays and headland at Rhos Point. Not significant elsewhere along the route. | Significant, adverse, long term, reversible for 3.5km section where there are open views from along the Penrhyn and Rhos Bays and headland at Rhos Point. Not significant elsewhere along the route. |
| WCP Section O Colwyn Bay | Medium | Medium-high for the 5km section from Colwyn Bay to 0.5km west of Llandulas. Medium to low from Llandulas to Pensarn. | Array Area reduced in size reducing the Horizontal FoV from this section | Significant, adverse, short term temporary for the 5km section to the east of Colwyn Bay. Not significant, adverse, short term temporary elsewhere. | Significant, adverse, long term, reversible for the 5km section to the east of Colwyn Bay. Not significant, adverse, short term temporary elsewhere. |
| WCP Section P Pensarn to Prestatyn | Medium | Medium-low to low | Array Area reduced in size reducing the Horizontal FoV from this section | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| WCP Section Q Gronant Dunes/Point of Ayr | Medium-high | Low | Array Area reduced in size reducing the Horizontal FoV from this section | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| Offa's Dyke LDR | Not assessed in detail | Not assessed in detail | Array area reduced in size reducing the | Non-significant, adverse, short-term temporary | Non-significant, adverse, long term, reversible |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
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| | | | Horizontal FoV from this section | | |
| NCR 5 - IoA | Medium | Low to negligible | Array area reduced in size increasing the separation distance and reducing the Horizontal FoV from this section | Non-significant, adverse, short-term temporary | Non-significant, adverse, long term, reversible |
| NCR 5 - Gwynedd | Medium to low | Medium-low or negligible | Array area reduced in size reducing the Horizontal FoV from this section | Non-significant, adverse, short-term temporary | Non-significant, adverse, long term, reversible |
| NCR 5 – Conwy | Medium to low | Medium-high for 0.5km section along Llandudno Bay, medium-high for 2km section where there are open views from along the Penrhyn and Rhos Bays and headland at Rhos Point and along Colwyn Bay to 0.5km west of Llandulas. Medium to low from Llandulas to Abergele. Low from Abergele to the boundary of Conwy at the River Clwyd crossing. Lower magnitude to no change elsewhere along the route. | Array area reduced in size reducing the Horizontal FoV from this section | Significant, adverse, short-term temporary for 0.5km section along Llandudno Bay, for 2km section where there are open views from along the Penrhyn and Rhos Bays and headland at Rhos Point and along Colwyn Bay to 0.5km west of Llandulas. Non-significant, adverse, short-term temporary along all other sections of NCR 5 through Conwy. | Significant, adverse, long term, reversible for 0.5km section along Llandudno Bay, for 2km section where there are open views from along the Penrhyn and Rhos Bays and headland at Rhos Point and along Colwyn Bay to 0.5km west of Llandulas. Non-significant, adverse, long term, reversible along all other sections of NCR 5 through Conwy. |
| NCR 5- Denbighshire | Not assessed in detail | Not assessed in detail | Array area reduced in size reducing the Horizontal FoV from this section | Non-significant, adverse, short-term temporary | Non-significant, adverse, long term, reversible |
| NCR 5 - Flintshire | Not assessed in detail | Not assessed in detail | Array area reduced in size reducing the | Non-significant, adverse, short-term temporary | Non-significant, adverse, long term, reversible |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
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| | | | Horizontal FoV from this section | | |
| A55, North Wales Expressway - Gwynedd | Medium to low | Medium-low or negligible | Array area reduced in size reducing the Horizontal FoV from this section | Non-significant, adverse, short-term temporary | Non-significant, adverse, long term, reversible |
| A55, North Wales Expressway - Denbighshire | Not assessed in detail | Not assessed in detail | Array area reduced in size reducing the Horizontal FoV from this section | Non-significant, adverse, short-term temporary | Non-significant, adverse, long term, reversible |
| A55, North Wales Expressway - Flintshire | Not assessed in detail | Not assessed in detail | Array area reduced in size reducing the Horizontal FoV from this section | Non-significant, adverse, short-term temporary | Non-significant, adverse, long term, reversible |
| IoA LCA 6: Amlwch and Environs | Medium | Medium-low to no change | Array Area reduced in size increasing the separation distance from this LCA | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| IoA LCA 8: Dulas Bay Hinterland | Medium-high along the immediate coastal edge where there is a direct association with the seascape to the north and north-east and Medium elsewhere. | Medium-low to No change | Array Area reduced in size increasing the separation distance and the Horizontal FoV from this LCA | Significant adverse, short term temporary along the immediate coastal edge where there is a direct association with the seascape to the north and north-east. Not significant elsewhere within this LCA. | Significant adverse, long term, reversible along the immediate coastal edge where there is a direct association with the seascape to the north and north-east. Not significant elsewhere within this LCA. |
| IoA LCA 9: Red Wharf Bay | Medium inland Medium-high | Medium-low to No change | Array Area reduced in size increasing the | Significant, adverse, short term, temporary along the immediate | Significant, adverse, long term, reversible along the immediate |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
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| | along coastal areas with a strong association with the seascape to the north-east. | | separation distance and reducing the Horizontal FoV from this LCA | coastline between Moelfre headland and Benllech and south of Benllech and round Red Wharfe Bay to a point level with Ty-mawr north of Pentraeth Forest. Not significant elsewhere. | coastline between Moelfre headland and Benllech and south of Benllech and round Red Wharfe Bay to a point level with Ty-mawr north of Pentraeth Forest. Not significant elsewhere. |
| IoA LCA 10: Penmon and Puffin Island | Medium-high | Medium magnitude of change relates to the coastal, northerly exposed areas of the LCA, extending inland by 0.5 to 0.75km and excluding the settled inland and former quarry area to the east. No change elsewhere. | Array Area reduced in size reducing the Horizontal FoV from this LCA | Significant, adverse, short term temporary in the coastal, northerly exposed areas of the LCA, extending inland by 0.5 to 0.75km. Not significant to the west of Bwrdd Arthur and in the settled inland and former quarry area to the east. | Significant, adverse, long term, reversible in the coastal, northerly exposed areas of the LCA, extending inland by 0.5 to 0.75km. Not significant to the west of Bwrdd Arthur and in the settled inland and former quarry area to the east. |
| IoA LCA 11: Eastern Menai Strait | Medium-high (Beaumaris and south-west) to high (north-east of Beaumaris) | Medium in the coastal, north-easterly exposed areas to the north of Beaumaris and south of Viewpoint 28 – Trwyn y Penrhyn parking layby, extending inland by 0.3-0.5km. Elsewhere lower to No change | None | Significant, adverse, short term temporary in the coastal, north-easterly exposed areas to the north of Beaumaris and south of Viewpoint 28 – Trwyn y Penrhyn parking layby, extending inland by 0.3-0.5km. Not significant elsewhere within the LCA. | Significant, adverse, long term, reversible in the coastal, north-easterly exposed areas to the north of Beaumaris and south of Viewpoint 28 – Trwyn y Penrhyn parking layby, extending inland by 0.3-0.5km. Not significant elsewhere within the LCA. |
| Gwynedd LCA G01: Bangor Coastal Plain | Medium within Bangor and to the south and south-west of it. Medium-high along the coastal edge to the north-east and east of | Medium in the coastal, north-easterly exposed areas to the north-east of Bangor extending inland by approximately 0.3-1km to the edge of the rail line. Elsewhere lower to no change. | Array area reduced in size increasing the separation distance from this LCA as well as the reducing the Horizontal FoV in views from parts of this LCA. | Significant, adverse, short-term temporary in the coastal, exposed areas to the north-east of Bangor, extending inland by 0.3-1km. | Significant, adverse, long term, reversible in the coastal, exposed areas to the north-east of Bangor, extending inland by 0.3-1km. |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
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| | Bangor and including the mudflats. | | | Non-significant, adverse, short-term temporary elsewhere within the LCA. | Non-significant, adverse, long term, reversible elsewhere within the LCA. |
| SNP LCA 01: Northern Uplands | Medium-high | Medium-low to no change | Array Area reduced in size reducing the Horizontal FoV from this LCA | Non-significant, adverse, short-term temporary. | Non-significant, adverse, long term, reversible |
| SNP LCA 02: Carneddau Range | High | Low to no change | Array Area reduced in size reducing the Horizontal FoV from this LCA | Non-significant, adverse, short-term temporary. | Non-significant, adverse, long term, reversible |
| Conwy/Denbighshire LCA C4: Limestone Farmlands (Abergele to Denbigh Coastal/Vale Hills) | Medium | Medium-low at the coastal edge and elevated locations where inland from the coast by approximately 1-1.5km with views out to sea. Reducing to Low or No change further inland. | Array Area reduced in size reducing the Horizontal FoV from this LCA | Non-significant, adverse, short term temporary. | Non-significant, adverse, long term, reversible |
| Conwy/Denbighshire LCA C9: Limestone Escarpment and Hills | Medium-high | Medium-low | Array Area reduced in size reducing the Horizontal FoV from this LCA | Non-significant, adverse, short term temporary. | Non-significant, adverse, long term, reversible |
| Conwy/Denbighshire LCA C10: Great Orme and Creuddyn Peninsula | Medium-high | Medium at the coastal edge between Great Orme and Little Orme and from elevated locations on the Great Orme (extending inland from the north by approximately 1km) and the north face of Little Orme. Reducing to Low or No change further inland where | Array Area reduced in size reducing the Horizontal FoV from this LCA | Significant adverse, short term temporary at the coastal edge between Great Orme and Little Orme and from elevated locations on the Great Orme (extending inland from the north by approximately 1km) and the north face of Little Orme. Not significant elsewhere within the LCA. | Significant adverse, long term, reversible at the coastal edge between Great Orme and Little Orme and from elevated locations on the Great Orme (extending inland from the north by approximately 1km) and the north face of Little Orme. Not significant elsewhere within the LCA. |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
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| | | views are restricted or have a developed foreground. | | | |
| Clwydian Hills and Dee Valley AONB LCT 2: Hills, Lower Plateau & Scarp Slopes | Medium-high | Low | Array Area reduced in size reducing the Horizontal FoV from this LCA | Non-significant, adverse, short term temporary. | Non-significant, adverse, long term, reversible |
| Clwydian Hills and Dee Valley AONB LCT 5: Rolling Lowland | Medium-high. | Low | Array Area reduced in size reducing the Horizontal FoV from this LCA | Non-significant, adverse, short term temporary. | Non-significant, adverse, long term, reversible |
| SCA 2: Conwy Bay | Medium-high | Medium in vicinity of the Great Orme. Medium-low across the upland area between Foel Lus and Conwy Mountain and in the seascape to the north-west. All other parts of the SCA - no change or low | Array Area reduced in size increasing the separation distance and reducing the Horizontal FoV from this SCA | Significant, adverse, short term temporary on the upper and northerly slopes of the Great Orme. Not significant, adverse, short term temporary elsewhere within the SCA. | Significant, adverse, long term, reversible on the upper and northerly slopes of the Great Orme. Not significant, adverse, short term temporary elsewhere within the SCA. |
| SCA 3: Traeth Lafan | Medium-high | Medium at coastal, north-easterly exposed areas to the north of Beaumaris and south of Viewpoint 28 – Trwyn y Penrhyn parking layby, extending inland by 0.3-0.5km and the section of the immediate coast between a point north of Aber Farm to west of Llanfairfachan. Elsewhere lower or there will be no change. | Array Area reduced in size reducing the Horizontal FoV from this SCA | Significant, adverse, short term temporary in the coastal, north-easterly exposed areas to the north of Beaumaris and south of Viewpoint 28 – Trwyn y Penrhyn parking layby, extending inland by 0.3-0.5km and the immediate coastal area between a point north of Aber Farm to the west of Llanfairfachan. Not significant, adverse, short term temporary elsewhere within the SCA. | Significant, adverse, long term, reversible in the coastal, north-easterly exposed areas to the north of Beaumaris and south of Viewpoint 28 – Trwyn y Penrhyn parking layby, extending inland by 0.3-0.5km and the immediate coastal area between a point north of Aber Farm to the west of Llanfairfachan. Not significant, adverse, short term temporary elsewhere within the SCA. |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
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| SCA 5: Penmon | Medium-high | Medium at the coastal, northerly exposed areas of the LCA, extending inland by 0.5 to 0.75km and excluding the settled inland and former quarry area to the east. Lower to no change elsewhere. | Array Area reduced in size reducing the Horizontal FoV from this SCA | Significant, adverse, short term temporary in the coastal, northerly exposed areas of the LCA, extending inland by 0.5 to 0.75km. Not significant, adverse, short term temporary to the west of Bwrdd Arthur and in the settled inland and former quarry area to the east. | Significant, adverse, long term, reversible in the coastal, northerly exposed areas of the LCA, extending inland by 0.5 to 0.75km. Not significant, adverse, short term temporary to the west of Bwrdd Arthur and in the settled inland and former quarry area to the east. |
| SCA 6: Red Wharf Bay to Moelfre | Medium inland and in areas of open seascape. Medium-high along the immediate coastal areas and within the contained areas of sea located between Moelfre headland and level with Bwrdd Arthur to the east where there is a strong association with the wider seascape to the north-east. | Medium-low to No change. | Array Area reduced in size increasing the separation distance and reducing the Horizontal FoV from this LCA | Significant, adverse, short term, temporary along the immediate landward coastline between Moelfre headland and Benllech and south of Benllech and round Red Wharfe Bay to a point level with Ty-mawr north of Pentraeth Forest and within the contained areas of sea located between Moelfre headland and level with Bwrdd Arthur to the east where there is a strong association with the wider seascape to the north-east. Not significant, adverse, short term temporary elsewhere. | Significant, adverse, long term, reversible along the immediate landward coastline between Moelfre headland and Benllech and south of Benllech and round Red Wharfe Bay to a point level with Ty-mawr north of Pentraeth Forest and within the contained areas of sea located between Moelfre headland and level with Bwrdd Arthur to the east where there is a strong association with the wider seascape to the north-east. Not significant, adverse, short term temporary elsewhere. |
| SCA 7: Dulas Bay | Medium-high along the immediate coastal edge and | No change to Medium-low. | Array Area reduced in size increasing the separation distance and | Significant adverse, short term temporary along the immediate coastal edge and within the sea area to the west of and lying | Significant adverse, long term, reversible along the immediate coastal edge and within the sea area to the west of and lying |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
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| | within the sea area to the west of and lying between the Islet of Ynas Dulas and Moelfre headland where there is a direct association with the seascape to the north and north-east and Medium elsewhere. | | the Horizontal FoV from this LCA | between the Islet of Ynas Dulas and Moelfre headland where there is a direct association with the seascape to the north and north-east. Not significant, adverse, short term temporary elsewhere within this LCA. | between the Islet of Ynas Dulas and Moelfre headland where there is a direct association with the seascape to the north and north-east. Not significant, adverse, short term temporary elsewhere within this LCA. |
| SCA A - Llandudno Bay | Medium-high. | Medium | Array Area reduced in size reducing the Horizontal FoV from this SCA | Significant adverse, short term temporary. | Significant, adverse, long term, reversible |
| SCA B - Colwyn Bay | Medium | Medium | Array Area reduced in size reducing the Horizontal FoV from this SCA | Non-significant, adverse, short term temporary. | Significant, adverse, long term, reversible |
| SCA C - Vale of Clwyd | Medium | Medium | Array Area reduced in size reducing the Horizontal FoV from this SCA | Non-significant, adverse, short term temporary. | Significant, adverse, long term, reversible |
| IoA AONB Special Quality: Expansive Views | High | Medium-low from Moelfre to west of Bwrydd Arthur and Medium east of Bwrydd Arthur to Penmon Point and north of Beaumaris in views from immediate coastal areas and vantage points. | Array Area reduced in size increasing the separation distance and the Horizontal FoV in views from the AONB. | Significant, adverse, short term, temporary effects on the 'Expansive views' special quality from some limited coastal areas and higher vantage points within the AONB. | Significant, adverse, long term, reversible effects on the 'Expansive views' special quality from some limited coastal areas and higher vantage points within the AONB. |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
|--------|-------------------------|--|---------------------|--|--|
| | | Elsewhere low or negligible/no change. | | <p>These are views from Penmon Point towards Puffin Island and Great Orme; Moelfre Headland, Bwrdd Arthur, from Benlech Bay, across Red Wharfe Bay, Penmon Point to Puffin Island, Trwyn y Penrhyn parking to Penmon Point and Great Orme, Beaumaris to Puffin Island and the Great Orme; and sections C: Dulas, D: Moelfre, E: Red Wharfe Bay/Penmon, and F: Penmon Point of the Wales Coast Path.</p> <p>Significant effects on the perceptions of the sense of openness as a result of the introduction of the AyM OWF to views from Dulas Bay, Red Wharfe Bay, and from south-east Anglesey out of Conwy Bay.</p> <p>Significant effects on relative wilderness and the feeling of isolation (from human intervention) would apply in views from the sections of the coast between Moelfre and Point Llynas and along the coast between Penmon Point and Bwrdd Arthur. There would be no change to the perception of exposure as a result of the introduction of AyM OWF to views.</p> | <p>These are views from Penmon Point towards Puffin Island and Great Orme; Moelfre Headland, Bwrdd Arthur, from Benlech Bay, across Red Wharfe Bay, Penmon Point to Puffin Island, Trwyn y Penrhyn parking to Penmon Point and Great Orme, Beaumaris to Puffin Island and the Great Orme; and sections C: Dulas, D: Moelfre, E: Red Wharfe Bay/Penmon, and F: Penmon Point of the Wales Coast Path.</p> <p>Significant effects on the perceptions of the sense of openness as a result of the introduction of the AyM OWF to views from Dulas Bay, Red Wharfe Bay, and from south-east Anglesey out of Conwy Bay.</p> <p>Significant effects on relative wilderness and the feeling of isolation (from human intervention) would apply in views from the sections of the coast between Moelfre and Point Llynas and along the coast between Penmon Point and Bwrdd Arthur. There would be no change to the perception of exposure as a result of the introduction of AyM OWF to views.</p> |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
|---|--|--|--|--|--|
| | | | | <p>Elsewhere the effects would be not significant, adverse, short term, temporary.</p> <p>Views across the Menai Strait or towards more distant borrowed landscapes of Snowdonia, the Isle of Man, the Llyn Peninsula and the mountains of the Lake District would not generally be affected.</p> | <p>Elsewhere the effects would be not significant, adverse, long term, reversible.</p> <p>Views across the Menai Strait or towards more distant borrowed landscapes of Snowdonia, the Isle of Man, the Llyn Peninsula and the mountains of the Lake District would not generally be affected.</p> |
| IoA AONB Special Quality: Peace and Tranquillity | High for areas classified as 'Undisturbed'. Medium to high elsewhere | <p>Medium-low or Medium at: Viewpoint 7: Penmon Point north-east of parking; Viewpoint 14: Wales Coast Path near Penrhyn (Traeth yr Ora); Viewpoint 28: Trwyn y Penrhyn parking layby; Viewpoint 42: Mynydd Bodafon – Trig Point;</p> <p>The northerly section of WCP Section C: Dulas Bay; the northerly section of WCP Section E Red Wharfe Bay/Penmon; and WCP Section F Penmon Point in part.</p> <p>Low or negligible/no change elsewhere</p> | Array Area reduced in size increasing the separation distance and the Horizontal FoV in views from the AONB. | <p>Significant, adverse, short term, temporary effects identified at:</p> <ul style="list-style-type: none"> Viewpoint 14: Wales Coast Path near Penrhyn (Traeth yr Ora); Viewpoint 28: Trwyn y Penrhyn parking layby; Viewpoint 42: Mynydd Bodafon – Trig Point; The northerly section of WCP Section C: Dulas Bay; the northerly section of WCP Section E Red Wharfe Bay/Penmon; and WCP Section F Penmon Point in part. <p>Effects on other receptors assessed not significant, adverse, short term, temporary.</p> | <p>Significant, adverse, long term, reversible effects identified at:</p> <ul style="list-style-type: none"> Viewpoint 14: Wales Coast Path near Penrhyn (Traeth yr Ora); Viewpoint 28: Trwyn y Penrhyn parking layby; Viewpoint 42: Mynydd Bodafon – Trig Point; The northerly section of WCP Section C: Dulas Bay; the northerly section of WCP Section E Red Wharfe Bay/Penmon; and WCP Section F Penmon Point in part. <p>Effects on other receptors assessed not significant, adverse, short term, temporary.</p> |
| IoA AONB Special Quality: Islands around Anglesey | High | <p>26 islands no change</p> <p>Puffin Island-Medium</p> <p>Ynys Moelfre – Medium-low</p> | Array Area reduced in size increasing the separation distance and | Significant, adverse, short term, temporary effects on the visual interaction between the landscape/ seascape where the | Significant, adverse, long term, reversible effects on the visual interaction between the landscape/ seascape where the |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
|--|-------------------------|--|---|--|--|
| | | Ynys Dulas- Medium-low East Mouse (Ynys Amlwch) - Low | the Horizontal FoV in views from the AONB. | AyM OWF would form part of the backdrop to the islands of Ynys Moelfre, Ynys Dulas and Puffin Island. Elsewhere the effects on the Islands around Anglesey would be not significant, adverse. | AyM OWF would form part of the backdrop to the islands of Ynys Moelfre, Ynys Dulas and Puffin Island. Elsewhere the effects on the Islands around Anglesey would be not significant, adverse. |
| SNP Special Quality: Diverse landscapes | Medium-high | Low | Array area reduced in size reducing the Horizontal FoV in views forming part of the experience of this Special Quality. | Non-significant, adverse, short-term temporary. | Non-significant, adverse, long term, reversible |
| SNP Special Quality: Tranquility & solitude – Peaceful Areas. | Medium-high | Low | Array area reduced in size reducing the Horizontal FoV in views forming part of the experience of this Special Quality. | Non-significant, adverse, short-term temporary. | Non-significant, adverse, long term, reversible |
| Clwydian Range and Dee Valley AONB Special Quality: Landscape Character and Quality – Tranquillity | Medium-high | Low | Array Area reduced in size reducing the Horizontal FoV from this SCA | Non-significant, adverse, short term temporary. | Non-significant, adverse, long term, reversible |
| Clwydian Range and Dee Valley AONB Special Quality: Landscape Character and Quality – Remoteness and Wildness/Wilderness | Medium-high | Low | Array Area reduced in size reducing the Horizontal FoV from this SCA | Non-significant, adverse, short term temporary. | Non-significant, adverse, long term, reversible |

Table 10: Summary of potential effects on Seascape, Landscape and Visual representative viewpoints (MDS B).

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
|--|-------------------------|--|--|---|---|
| IMPACTS RESULTING FROM VISIBILITY OF THE AYM OWF WITHIN THE SEASCAPE | | | | | |
| VP2: Point Lynas - PRoW to north of lighthouse | High | Low | Array Area reduced in size increasing the separation distance from this VP. | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| VP 4: Moelfre Headland at sculpture (Daytime) | Medium-high | Medium-low | Array Area reduced in size increasing the separation distance from this VP. | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 4: Moelfre Headland at sculpture (Night-time) | Medium-high | Medium-low (operation) | Array Area reduced in size increasing the separation distance and the Horizontal FoV from this VP. | NA | Significant, adverse, long term, reversible |
| VP 7: Penmon Point - north-east of parking | High | Medium | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 8: Beaumaris - Wales Coast Path | High | Medium | No change | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 10: Carnedd Llewelyn | High | Medium-low | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 12: Conwy Mountain | Medium-high | Medium | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 13: Great Orme - near summit complex | Medium-high | Medium-high | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |

| IMPACT | SENSITIVITY OF RECEPTOR | MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING | MITIGATION MEASURES | RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING | RESIDUAL EFFECT DURING OPERATION |
|--|-------------------------|--|---|---|---|
| VP 13: Great Orme - near summit complex (Night-time) | Medium | Medium (operation) | Array Area reduced in size reducing the Horizontal FoV from this VP | NA | Significant, adverse, long term, reversible |
| VP 17: Penrhyn Castle terrace | Medium-high | Medium-low | Array Area reduced in size reducing the Horizontal FoV from this VP | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| VP 18: Llandudno paddling pool | Medium-high | Medium-high | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 22: Abergele promenade | Medium-high | Medium-low | Array Area reduced in size reducing the Horizontal FoV from this VP | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| VP 22: Abergele promenade (Night-time) | Medium | Medium-low (operation) | Array Area reduced in size reducing the Horizontal FoV from this VP | NA | Non-significant, adverse, long term, reversible |
| VP 24: Graig Fawr | High | Low | Array Area reduced in size reducing the Horizontal FoV from this VP | Non-significant, adverse, short term temporary | Non-significant, adverse, long term, reversible |
| VP 29: Colwyn Bay promenade | Medium-high | Medium-high | Array Area reduced in size reducing the Horizontal FoV from this VP | Significant, adverse, short term temporary | Significant, adverse, long term, reversible |
| VP 60: Foel Lus (Night-time) | Medium | Medium-low (operation) | Array Area reduced in size reducing the Horizontal FoV from this VP | NA | Non-significant, adverse, long term, reversible |

Table 11: Summary of predicted effects on Offshore Archaeology and Cultural Heritage.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|--------------|--------------------------------|---|---|
| CONSTRUCTION | | | | |
| Removal of sediment containing undisturbed archaeological contexts leading to total loss of the receptor during preparation of the seabed for WTGs and offshore substation foundations. | High adverse | High to negligible sensitivity | Implementation of Written Scheme of Investigation (WSI). Implementation of Archaeological Exclusion Zones (AEZs). Archaeological investigation of seabed anomalies (A2s) prior to impact. Implementation of a (Protocol for Archaeological Discoveries) PAD. | Minor to negligible adverse or minor to moderate beneficial |
| Penetration and compression effects of jack-up legs and anchoring of construction vessels during turbine, sub-station or cable installation leading to total or partial loss of archaeological receptors. | High adverse | High to negligible sensitivity | Implementation of WSI. Implementation of AEZs. Archaeological investigation of seabed anomalies (A2s) prior to impact. Implementation of a PAD. Archaeological assessment of any geotechnical data. | Low to negligible adverse or minor to moderate beneficial |
| Intrusion of piling foundations disturbing archaeological contexts leading to a partial or total loss of the receptor | High adverse | High sensitivity | Implementation of WSI. Archaeological assessment of any geotechnical work for any palaeogeographic sites or material. Implementation of a PAD. | Minor to negligible adverse or major beneficial |
| Disturbance of sediment containing potential archaeological receptors (material and contexts) during | High adverse | High to negligible sensitivity | Implementation of WSI. Implementation of AEZs, Further assessment of A2 anomalies, and implementation of a PAD. | Minor to negligible adverse or minor to moderate beneficial |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|--------------|--------------------------------|---|---|
| inter-array and export cable laying operations | | | | |
| Indirect effects upon known and potential marine archaeological receptors as a result of changes to sedimentation and erosion patterns. | High adverse | High to negligible sensitivity | Scour protection. Review of monitoring data to assess whether AEZs have been impacted or whether buried material has been exposed (archaeological assessment of survey data and/or implementation of PAD) | Minor to negligible adverse or minor to moderate beneficial |
| Compression of stratigraphic contexts containing archaeological material from combined weight of foundation, transition piece, tower, and wind turbine. | High adverse | High to negligible sensitivity | Implementation of WSI Archaeological assessment of geotechnical data. | Minor to negligible adverse or minor to moderate beneficial |
| OPERATION | | | | |
| Total or partial loss of archaeological receptors during the operation and maintenance phase due to penetration and compression effects | High adverse | High to negligible sensitivity | Implementation of WSI. Retention of AEZs. Avoidance of A2 anomalies. Archaeological assessment of geoarchaeological data pre-construction. | Minor to negligible adverse or minor to moderate beneficial |
| Total or partial loss of archaeological receptors during the operation and maintenance phase due to scour effects | High adverse | High to negligible sensitivity | Assignment and monitoring of potential scour in AEZs. Scour protection. Review of monitoring data to assess whether buried material has been exposed (archaeological assessment of survey data and/or implementation of PAD) | Minor to negligible adverse or minor beneficial |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|--|--------------------------------|--|---|
| DECOMMISSIONING | | | | |
| Total or partial loss of archaeological receptors during the decommissioning phase due to penetration and compression effects | High adverse | High to negligible sensitivity | Implementation of WSI. Retention of AEZs. Avoidance of A2 anomalies. | Minor to negligible adverse or minor to moderate beneficial |
| Total or partial loss of archaeological receptors during the decommissioning phase due to the draw-down of sediments | High adverse | High to negligible sensitivity | Implementation of WSI. Reviewing AEZs to ensure modeled draw-down of sediments will not occur within AEZ. Review of monitoring data to assess whether buried material has been exposed (archaeological assessment of survey data and/or implementation of PAD) | Minor to negligible adverse or minor beneficial |
| CUMULATIVE EFFECTS | | | | |
| Effects on known and potential archaeological receptors | High adverse Combined impact of a number of projects on the same receptor and incremental changes over time and over a wide area | High to negligible sensitivity | Impact from other projects unlikely due to distance, and indirect impacts from AyM are localised Incremental changes over time managed through standard mitigation measures across the EIA process | Minor to negligible adverse or minor to moderate beneficial |

Table 12: Summary of potential effects on Infrastructure and Other Users.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|--------------------|-------------------------|--|---------------------------------|
| CONSTRUCTION | | | | |
| Impacts on other offshore wind farms | Negligible adverse | Low - High | None beyond the embedded measures proposed | Minor adverse (not significant) |
| Potential impacts on non-OWF cables and pipelines. | Negligible adverse | High | None beyond the embedded measures proposed | Minor adverse (not significant) |
| Potential impact on recreational fishing | Low adverse | Low | N/A | Minor adverse (not significant) |
| OPERATION | | | | |
| Potential impacts on cables | Negligible adverse | Low | None beyond the embedded measures proposed | Minor adverse (not significant) |
| Potential impact on recreational fishing | Negligible adverse | Low | N/A | Minor adverse (not significant) |
| DECOMMISSIONING | | | | |
| Impacts from decommissioning are expected to be similar to those listed for construction, if the project's infrastructure is removed from the seabed at the end of the development's operational life. If, closer to the time of decommissioning, it is deemed removal of certain aspects of the development (for example cables) would have a greater environmental impact than leaving <i>in situ</i> , it may be preferable to leave those aspects <i>in situ</i> . In this case, the impacts for decommissioning would be similar to those described for the O&M, except where effects are dependent on the maintenance of the project. | | | | |
| CUMULATIVE EFFECTS | | | | |
| Potential impact on recreational fishing | Low adverse | Medium | N/A | Minor adverse (not significant) |

Table 13: Summary of effects on Aviation and Radar.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|----------------|-------------------------|--|---------------------------------|
| CONSTRUCTION | | | | |
| Creation of an aviation obstacle | Low adverse | Medium | None proposed beyond existing embedded mitigation and commitments. | Minor adverse (not significant) |
| OPERATION | | | | |
| Creation of an aviation obstacle | Low adverse | Medium | None proposed beyond existing embedded mitigation and commitments | Minor adverse (not significant) |
| Wind turbines causing permanent interference on civil and military radar systems | Medium adverse | High | NATS – Radar blanking and infill. The present position of the MOD regarding mitigation is discussed in Volume 2, Chapter 13 With agreed mitigation in place impact will be negligible | Minor adverse (not significant) |
| Wind turbines creating an impact to Instrument Flight Rules offshore helicopter operations to oil and gas platforms | Medium adverse | Low | None proposed beyond existing embedded mitigation and commitments | Minor adverse (not significant) |
| DECOMMISSIONING | | | | |
| Creation of an aviation obstacle | Low adverse | Medium | None proposed beyond existing embedded mitigation and commitments | Minor adverse (not significant) |
| CUMULATIVE EFFECTS | | | | |
| Creation of an aviation obstacle | Low adverse | Medium | None proposed beyond existing embedded mitigation and commitments | Minor adverse (not significant) |
| Wind turbines causing permanent interference on civil and military radar systems | Medium adverse | High | NATS – Radar blanking and infill. The present position of the MOD regarding mitigation is discussed in | Minor adverse (not significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--------|-----------|-------------------------|--|-----------------|
| | | | Volume 2, Chapter 13 With agreed mitigation in place impact will be negligible | |

3 Onshore Effects

Table 14: Summary of predicted construction effects on landscape and visual receptors from onshore infrastructure

| RECEPTOR | SENSITIVITY | MAGNITUDE OF CHANGE | EFFECT |
|--|---------------|---------------------|------------------------------------|
| PHYSICAL LANDSCAPE EFFECTS | | | |
| Agricultural Land | Medium – Low | Medium – Low | Minor and Not Significant |
| Hedgerows | Medium | Medium – Low | Moderate-Minor and Not Significant |
| Taller hedgerows and hedgerow trees found along the onshore ECC. | Medium – High | Medium | Moderate and Significant |
| Trees within the OnSS site area. | Medium – High | High | Major and Significant |
| Coastal Landscape | Medium | Low | Minor and Not Significant |
| LANDSCAPE CHARACTER EFFECTS (ONSS) | | | |
| A1. Eastern Lowlands (Cefn Meiriadog Vale Slopes) | Medium | High | Moderate-Major and Significant |
| C4. Limestone Farmlands (Abergele to Denbigh Coastal/Vale Hills) | Medium | Medium - Low | Moderate-Minor and Not Significant |
| Bodelwyddan Park RHPG | Medium - High | Medium - Low | Moderate and Not Significant |
| VISUAL EFFECTS (CABLE ROUTE AND LANDFALL) | | | |
| Wales Coast Path, NCR 5 | Medium - High | Low | Moderate-Minor and Not Significant |

| RECEPTOR | SENSITIVITY | MAGNITUDE OF CHANGE | EFFECT |
|---|---------------|---------------------|------------------------------------|
| Visitors to the Robin Hood Holiday Park | Medium | Medium - Low | Moderate-Minor and Not Significant |
| Chester to Holyhead railway line | Medium | Medium | Not Significant |
| PRoW to the south of Rhyl between the B5119 and A547 (including the North Wales Path) | Medium - High | Medium | Moderate and Significant |
| Bryn Celyn Cottages | High | Low | Moderate-Minor and Not Significant |
| Bryn Cwnin Farmhouse | High | Negligible | Minor and Not Significant |
| Bryn-y-wal Farm, | Medium – High | Medium - Low | Moderate and Not Significant |
| Cwybr Bach | Medium – High | Medium - High | Moderate – Major and Significant |
| Plas Lorna; | Medium - High | High | Major and Significant |
| Cwybr Fawr | Medium | Medium | Moderate and Not Significant |
| Faenol-Bropor | High | High | Major and Significant |
| Bridlepath (PRoW 201/9) to the north of the OnSS zone | Medium | High | Moderate – Major and Significant |
| B5381 Glascoed Road | Medium | High | Moderate – Major and Significant |
| Waen Meredydd | Medium | Medium-High | Moderate and Significant |
| VISUAL EFFECTS (ONSS) | | | |
| Viewpoint 1 - Bridlepath nr Faenol-Bropor | Medium | High | Moderate-Major and Significant |

| RECEPTOR | SENSITIVITY | MAGNITUDE OF CHANGE | EFFECT |
|--|------------------------------|---------------------|------------------------------------|
| Viewpoint 2 - St Asaph, Business Park | Medium - Low | Medium - Low | Minor and Not Significant |
| Viewpoint 3 – Glascoed Rd | Road Users Medium - Low | High | Moderate and Significant |
| | Residential Medium – High | High | Major and Significant |
| The Denbighshire Memorial Park and Crematorium | Medium - High | High | Major and Significant |
| Viewpoint 4 - A55 | Medium - Low | Medium | Moderate-Minor and Not Significant |
| Viewpoint 5 - Minor Rd, Groesffordd | Medium - High | Medium | Moderate and Significant |

Table 15: Summary of predicted operational effects on landscape and visual receptors from onshore infrastructure

| RECEPTOR | SENSITIVITY | MAGNITUDE OF CHANGE | EFFECT | MAGNITUDE OF CHANGE | RESIDUAL EFFECT |
|--|------------------------------|---------------------|------------------------------------|---------------------|------------------------------------|
| | | YEAR 1 | YEAR 1 | YEAR 15 | YEAR 15 |
| LANDSCAPE CHARACTER EFFECTS (ONSS) | | | | | |
| A1. Eastern Lowlands (Cefn Meiriadog Vale Slopes) | Medium | Medium - High | Moderate and Significant | Medium | Moderate and Not Significant |
| C4. Limestone Farmlands (Abergele to Denbigh Coastal/Vale Hills) | Medium | Medium - Low | Moderate-Minor and Not Significant | Low | Minor and Not Significant |
| Bodelwyddan Park RHPG | Medium - High | Medium - Low | Moderate and Not Significant | Low | Moderate-Minor and Not Significant |
| VISUAL EFFECTS (ONSS) | | | | | |
| Viewpoint 1 - Bridlepath nr Faenol-Bropor | Medium | High | Moderate-Major and Significant | Medium - High | Moderate and Significant |
| Viewpoint 2 - St Asaph, Business Park | Medium - Low | Medium | Minor and Not Significant | Medium | Minor and Not Significant |
| Viewpoint 3 – Glascoed Rd | Road Users Medium - Low | Medium - High | Moderate and Significant | Low | Minor and Not Significant |
| | Residential Medium - High | Medium - High | Moderate-Major and Significant | Low | Moderate-Minor and Not Significant |
| The Denbighshire Memorial Park and Crematorium | Medium - High | Medium - High | Moderate-Major and Significant | Low | Moderate-Minor and Not Significant |
| Viewpoint 4 - A55 | Medium - Low | Medium | Moderate-Minor and Not Significant | Low | Minor and Not Significant |
| Viewpoint 5 - Minor Rd, Groesffordd | Medium - High | Medium | Moderate and Significant | Medium - Low | Moderate and Not Significant |

Table 16: Summary of predicted effects on Socio Economic Receptors

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|----------------------------|--|-------------------------|--|---|
| CONSTRUCTION | | | | |
| Employment (North Wales) | Negligible | High | n/a | Minor beneficial (Not significant) |
| Employment (Wales) | Negligible | High | n/a | Minor beneficial (Not significant) |
| The economy (North Wales) | Negligible | High | n/a | Minor beneficial (Not significant) |
| The economy (Wales) | Negligible | High | n/a | Minor beneficial (Not significant) |
| Community Facilities (LAI) | Negligible (for Beacon Baptist Church, St Illud's RC Church, Ysgol Bryn Hedydd, Sea Bank Surgery, Rhuddlan Clinic, and The Rhuddlan Surgery); and Low (for North Wales Bowls Centre, Festival Church Prestatyn and Parish Church of St Mary) | Medium | ⬆ Working hours ⬆ Rolling construction ⬆ NVMP ⬆ Perimeter fencing | Minor adverse (Not significant) |
| Healthcare Services (LSA) | Negligible | Medium | n/a | Minor adverse (Not significant) |
| OPERATION | | | | |
| Employment (North Wales) | Negligible | High | n/a | Minor beneficial (not significant) |
| Employment (Wales) | Negligible | High | n/a | Minor beneficial (not significant) |
| The economy (North Wales) | Low | High | n/a | Moderate beneficial (significant) |
| The economy (Wales) | Negligible | High | n/a | Minor beneficial (not significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|-----------------|-----------|-------------------------|---------------------|-----------------|
| DECOMMISSIONING | | | | |

It is assumed that the residual effect for all socio-economic receptors will minor (but are likely to be lower in magnitude) to the project's construction phase. Based on the assessment, it is anticipated that the decommissioning of AyM will have a **minor beneficial** (i.e. not a significant effect) on the North Wales economy.

| CUMULATIVE EFFECTS | | | | |
|--|------------|--------|-----|---|
| Impact of construction on employment (North Wales) | Negligible | High | n/a | Minor beneficial (Not Significant) |
| Impact of construction on employment (Wales) | Negligible | High | n/a | Minor beneficial (Not Significant) |
| Impact of construction on the economy (North Wales) | Low | High | n/a | Moderate beneficial (Significant) |
| Impact of construction on the economy (Wales) | Negligible | High | n/a | Minor beneficial (Not Significant) |
| Impact of construction on demand for healthcare services (LSA) | Low | Medium | n/a | Minor adverse (Not Significant) |
| Impact of operations on employment (North Wales) | Negligible | High | n/a | Minor beneficial (Not Significant) |
| Impact of operations on employment (Wales) | Negligible | High | n/a | Minor beneficial (Not Significant) |
| Impact of operations on the economy (North Wales) | Negligible | High | n/a | Minor beneficial (Not Significant) |
| Impact of operations on the economy (Wales) | Negligible | High | n/a | Minor beneficial (Not Significant) |

Table 17: Summary of predicted effects on Tourism and recreation receptors.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|--|--|---------------------|---|
| CONSTRUCTION | | | | |
| Impact of construction on onshore recreation | Landfall construction negligible to medium depending on receptor; Cable installation – no change (River Clwyd), negligible (Bruton Park, NCN84 and North Wales Path), low (cycleways and PRow). | High - NCN5, Wales Coast Path, Bruton Park/ Maes Bruton and Footpaths 206/30 & 206/29. NCN84 and North Wales Path; Low or Medium – Ffrith Beach, Ffrith Park, Link Path, A548 Cycleway, BOAT 206/44, Footpaths 206/20 and 201/12, Pentre Lane, Bridleways 206/12, 201/10 and 201/9. | | Minor adverse (Not Significant) effect on all onshore recreation receptors identified. |
| Impact of construction on offshore recreation | Landfall construction – negligible ; Turbine foundation and seabed preparation – low ; Installation of turbine and (offshore) substation foundations – medium ; Installation of export and array cables – medium ; and Installation of WTG and offshore substation(s) – medium . | Low – bathing, water sports, scuba diving and recreational sailing. | | Minor adverse (Not Significant) for all offshore receptors. |
| Impact of construction activity on tourism receptors | Negligible – Ffrith Park/ Ffrith Beach Arena Park, Rhuddlan Local Natural Reserve, Pen-Y-Ffrith Caravan Park, Astrobowl and Rhyl Golf Club; Low – North Wales Bowls Centre, Rhuddlan Castle and Rhuddlan Golf Course; Medium – Pirate Island Golf | Low – North Wales Bowls Centre, Rhyl Golf Club, Ffrith Park/ Ffrith Beach Arena Park, Pirate Island Golf, Rhuddlan Local Natural Reserve, Lyons Robin Hood Holiday Park, New Pines Holiday Home Park and Rhuddlan Golf Club; and Medium – Rhuddlan Castle and Astrobowl | | Minor adverse (Not Significant) for Pirate Island Golf, Astrobowl, Lyons Robin Hood Holiday Park, New Pines Holiday Home Park, North Wales Bowls Centre, Rhuddlan Castle, and Rhuddlan Golf Club; Negligible (Not Significant) for Rhyl Golf Club, Pen-Y-Ffrith Caravan Park, Ffrith Beach Touring Caravan Park, Ffrith Park/ Ffrith Beach Arena |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|--|--------------------------------|---------------------|---|
| | | | | Park, ad Rhuddlan Local Natural Reserve. |
| Impact of construction activity on volume and value of the tourism economy | Negligible on local impact area as a whole Rhyl, Prestatyn, Kinmel Bay and Abergele – negligible Abergele to Rhos-on-Sea (including Colwyn Bay) – negligible; and Great Orme and Llandudno – low in short term only | High | | Minor adverse on local impact area as a whole (Not Significant) Moderate adverse (Significant) for Great Orme and Llandudno in short term only. Minor adverse (Not Significant) for Rhyl, Prestatyn, Kinmel Bay and Abergele; and Abergele to Rhos-on-Sea. |
| Impact of construction activity on displacement of tourism visitors | Low (overall) <ul style="list-style-type: none"> ➤ Mostyn – negligible; ➤ Rhyl – negligible; ➤ Conwy – negligible; ➤ Port Penrhyn – low; and ➤ Holyhead – negligible. | Medium | | (Overall) Minor adverse (Not Significant) Minor adverse (Not Significant) for Mostyn, Rhyl, Conwy, Port Penrhyn and Holyhead |
| OPERATION | | | | |
| Impact of operational activity on onshore recreation | Generally negligible increasing to low when repairs are required | Same as per construction phase | | Generally negligible/ minor adverse (Not Significant), increasing to moderate adverse (temporarily Significant) on local (i.e. affected) receptors if repairs are needed. |
| Impact of operational activity on offshore recreation | Generally negligible , with potential to increase to low when repairs are required | Same as per construction phase | | Minor adverse (Not Significant) for scuba diving. Negligible (Not Significant) for bathing, water sports and recreational sailing. |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|---|--------------------------------|---------------------|--|
| Impact of operational phase on visitor receptors | Generally negligible , with potential to increase to low when repairs are required | Same as per construction phase | | Minor adverse (Not Significant) for all receptors. |
| Impact of operational phase on the volume and value of tourism economy | Negligible for the Rhyl, Prestatyn, Kinmel Bay and Abergele area and the Abergele to Rhos-on-Sea (including Colwyn Bay) area ▲ Low for the Llandudno and Great Orme area in short-term and negligible in longer term. | High | | . Minor (Not Significant) for the Rhyl, Prestatyn, Kinmel Bay and Abergele area and the Abergele to Rhos-on-Sea (including Colwyn Bay) area Moderate adverse (Significant) for the Llandudno and Great Orme area in the short term, whilst minor in the longer term (Not significant). |

DECOMMISSIONING

It is assumed that the residual effect for all tourism and recreation receptors will minor (but are likely to be lower in magnitude) to the project's construction phase.

| CUMULATIVE EFFECTS | | | | |
|--|------------|---|--|--|
| Cumulative impact of construction on onshore recreation receptors | Negligible | Low to high (for equivalent receptors in the assessment of AyM). | | Minor adverse (Not Significant) |
| Cumulative impact of construction on offshore recreation receptors | Negligible | Low to high (for equivalent receptors in the assessment of AyM). | | Minor adverse (Not Significant) |
| Cumulative impact of construction on the volume and value of tourism economy | Negligible | High | | Minor adverse (Not Significant) |
| Cumulative impact of construction on the displacement of tourism visitors | Low | Medium | | Minor adverse (Not Significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|------------|---|---------------------|--|
| Cumulative impact of operational activity on onshore recreation | Negligible | Low to high (for equivalent receptors in the assessment of AyM). | | Minor adverse (Not Significant) |
| Cumulative impact of operational phase on volume and value of the tourism economy | Negligible | High | | Minor adverse (Not Significant) |

Table 18: Summary of predicted effects on onshore biodiversity and nature conservation receptors

| IMPORTANT ECOLOGICAL FEATURE | POTENTIAL IMPACTS | PROPOSED MITIGATION/ COMPENSATION | SIGNIFICANCE OF RESIDUAL EFFECT |
|--|---|---|---|
| CONSTRUCTION | | | |
| S7 habitat: coastal sand dune (Route Section B) | c. 0.1 ha of coastal sand dune habitat, west of North Wales Bowl Centre at Y Ffrith would be temporarily lost. | The re-establishment of dune grassland habitats from turf salvaged from specific areas or the creation of dune grassland via reinstatement of appropriate soils and seeding. Further details are included within the OLEMP (application ref: 8.4). | Significant, temporary adverse at a local level in the short term. Not significant in mid-term once proposed mitigation has matured and become established. |
| S7 habitat: Hedgerows (Route Sections B-G) | S7 habitat: Hedgerows (Route Sections B-G): “Permanent loss of c. 540m of hedgerow including at least 8 mature trees at the OnSS footprint, temporary loss of parts of 128 other hedgerows, including at least 41 mature trees. Other hedgerow trees typically smaller may also be lost, but have not been specifically counted. This includes three that are “Important” under the Hedgerows Regulations 1997 | Onshore ECC Replanting/ reinstatement with a species-rich, locally appropriate native mixture including heavy standard trees at a 3:1 ratio for any lost. OnSS footprint Residual effects will be offset via replanting of 770m and including heavy standard trees at a 3:1 ratio for any lost. Further details are included within the OLEMP (application ref: 8.4). | Significant permanent and temporary adverse at a local level in the short term until the proposed mitigation is sufficiently mature and becomes established. Not significant in mid-term once proposed mitigation has matured and become established as this allows time for new/ replacement hedgerows to establish. Residual effects as a result of hedgerow loss at the OnSS will be offset via compensatory planting of 770m of new hedgerow. |
| S7 habitat: Lowland Fen (Route Section C) | 0.12 ha of lowland fen at The Flash would be temporarily lost. | Topography including hydrological connection reinstated following work to ensure water retention. Area allowed to revegetate naturally. Further details are included within the OLEMP (application ref 8.4). | Not significant in short term. |
| S7 habitat: Coastal and floodplain grazing marsh including part of the | 11 ha of coastal and floodplain grazing marsh (fields and ditches), the majority of which is also part of Clwyd Estuary and Adjacent Fields LWS, will be temporarily lost. | A range of measures relating to vegetation clearance and other construction works are proposed in Section 5.9 of ES Volume 3, Chapter 5 with further details provided in | Not significant in short term. |

| IMPORTANT ECOLOGICAL FEATURE | POTENTIAL IMPACTS | PROPOSED MITIGATION/ COMPENSATION | SIGNIFICANCE OF RESIDUAL EFFECT |
|--|--|---|---|
| Clwyd Estuary and Adjacent Fields LWS (Sections D & E) | | the Outline CMS (application ref: 8.13.1) and OLEMP (application ref: 8.4) | |
| Plant species (at coastal dune habitat) | Temporary loss of coastal habitat at Y Ffrith, west of North Wales Bowls Centre, potentially supporting locally important plant species (refer to Habitat report at Annex 5.2 (application ref: 6.5.5.2) for details). | As for coastal sand dune habitat in Table 15 of ES Volume 3, Chapter 5 | Potentially significant, temporary adverse at a county level in the short term until the proposed mitigation is sufficiently mature and become established. Not significant in mid-term once proposed mitigation has matured and become established. |
| Fish: Atlantic salmon, brown trout, European eel | Disturbance to European eel that may use water courses, including ditches, that are subject to trenching work within the OL. Accidental pollution from diffuse or point sources associated with construction. | Trenching work at smaller water courses and ditches will not take place at night, and will include measures such that eels cannot become trapped within the work area. Refer to embedded mitigation at Section 5.9 of ES Volume 3, Chapter 5 for measures to reduce pollution risks. | Not significant in the short term. |
| Invertebrates (using coastal dune habitat) | Temporary loss of coastal habitat. | As for coastal sand dune habitat in Table 15 of ES Volume 3, Chapter 5 | Potentially significant, temporary adverse at a county level in the short term until the proposed mitigation is sufficiently mature and become established. Not significant in mid-term once proposed mitigation has matured and become established. |
| Invertebrates (using coastal and floodplain grazing marsh) | Temporary loss of habitat | As for coastal and floodplain grazing marsh habitats in Table 15 of ES Volume 3, Chapter 5 | Not significant in short term |
| GCN and common toad | Permanent loss of 5 ha of terrestrial habitat and temporary loss of 10.56 ha of terrestrial habitat directly adjacent to GCN breeding ponds, also | GCN EPSL required from NRW in advance of work within 250m of GCN potential breeding pond. | No significant effect is likely on the local conservation status of any of the |

ⁱ conservation status of a species means the sum of the influences acting on the species concerned that may affect the long-term distribution and abundance of its populations within the territory referred to in Article 2 of the EC Habitats Directive;

| IMPORTANT ECOLOGICAL FEATURE | POTENTIAL IMPACTS | PROPOSED MITIGATION/ COMPENSATION | SIGNIFICANCE OF RESIDUAL EFFECT |
|------------------------------|---|---|--|
| | <p>used by common toads, at SABP (Route Section F).</p> <p>Temporary loss of terrestrial habitats directly adjacent to GCN breeding ponds also used by common toads along the route.</p> <p>Temporary habitat fragmentation/isolation resulting in functional loss of terrestrial habitat and breeding ponds.</p> <p>Accidental killing and injury.</p> <p>Accidental pollution to breeding ponds from diffuse or point sources associated with construction.</p> | <p>The EPSL application and Method Statement will include the measures that will be implemented.</p> <p>Refer to embedded mitigation at Section 5.9 of ES Volume 3, Chapter 5 for measures to reduce pollution risks.</p> <p>Further details are included within the OLEMP (application ref: 8.4).</p> | <p>metapopulations present following the implementation of mitigation measures.</p> <p>The project would help toward restoring the favourable conservation status in the medium-long term, due to the provision of additional aquatic and terrestrial habitats managed for the benefit of the species for the lifetime of the project.</p> |
| Reptiles | <p>Temporary habitat loss at the TCC at Y Ffrith or other locations where habitat is potentially suitable.</p> <p>Accidental killing and injury.</p> | <p>Mitigation for GCN will also reduce risks to reptiles.</p> <p>Reasonable avoidance measures would be used at Y Ffrith and elsewhere where necessary, to reduce the risk of committing an offence under the protecting legislation.</p> <p>Refer to the OLEMP (application ref: 8.4) for further details.</p> | No significant effect is likely. |
| Breeding Birds | <p>Permanent loss of 5 ha of habitat at the OnSS used by small numbers of notable passerine species.</p> <p>Temporary loss of habitat for small numbers of notable passerine species along the onshore ECC.</p> <p>Disturbance to a Schedule 1 bird species (barn owl) along the onshore ECC during construction.</p> | <p>A range of measures relating to vegetation clearance and other construction works are proposed in Section 5.9 of ES Volume 3, Chapter 5.</p> <p>Proposed habitat creation and management at the OnSS will provide suitable habitat for a range of notable passerine species.</p> | No significant effect on the local conservation status is likely following the implementation of mitigation measures |

As defined in Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora Article 1(i) The conservation status will be taken as "favourable" when: - population dynamics data on the species concerned indicate that it is maintaining itself on a long-term basis as a viable component of its natural habitats, and - the natural range of the species is neither being reduced nor is likely to be reduced for the foreseeable future, and - there is, and will probably continue to be, a sufficiently large habitat to maintain its populations on a long-term basis;

| IMPORTANT ECOLOGICAL FEATURE | POTENTIAL IMPACTS | PROPOSED MITIGATION/ COMPENSATION | SIGNIFICANCE OF RESIDUAL EFFECT |
|--|---|--|---|
| | Inadvertent destruction or damage to active nests (all wild bird species). | Further details of proposed measures are provided in the Outline CMS (application ref: 8.13.1) and OLEMP (application ref: 8.4) | |
| Non-Breeding Birds (Landfall and River Clwyd, including birds forming part of the Clwyd Estuary and Adjacent Fields LWS population) | Landfall Temporary loss of up to 2.4 ha of intertidal habitat Y Ffrith. Disturbance, both from noise and visual sources could displace waterbirds. | Subject to the final design parameters, piling (if required at the landfall) would either take place outside the winter period (October to March) or utilize less noisy, vibro-piling technology, unless otherwise agreed. If required, depending on the final locations and timing of the works, HDD pits and other working areas at the landfall and River Clwyd crossing would be screened, where possible. | Landfall – not significant River Clwyd – not significant |
| Bats | Loss of up to 49 trees that have potential roost features. Permanent loss of flight lines and foraging habitat at the OnSS area. Temporary fragmentation of hedgerow flight lines and loss of foraging habitat elsewhere along the onshore ECC. | An NRW EPSL will be required in advance of work that could affect roosting bats. Key principles that will be followed to mitigate and compensate for impacts are described in the OLEMP (application ref: 8.4). One of the key principles is that there will be no net loss of bat roosting habitat. Measures to mitigate for temporary loss/fragmentation of flight lines and foraging habitat include reinstatement of hedgerows and use of “dead hedges” at discrete locations during construction (refer to OLEMP (application ref: 8.4) for details). | No significant effect is likely on the local conservation status of bat populations as a result of temporary habitat loss following the implementation of mitigation measures. Residual effects as a result of permanent loss of roost trees (at the OnSS and along the Onshore ECC) and permanent loss of hedgerow at the OnSS will be offset via compensatory measures at the OnSS, detailed in the OLEMP (application ref: 8.4). Compensatory measures include replanting of 770m of hedgerow and including heavy standard trees at a 3:1 ratio for any lost (see Section 6.3.2 of the Outline Landscape and Ecology Management Plan (OLEMP)). The effects of permanent loss of foraging habitat are therefore considered significant in the short term, but not significant in the mid-term (once proposed mitigation has matured and become established as this allows time for new/ replacement hedgerows to establish). Compensation and |

| IMPORTANT ECOLOGICAL FEATURE | POTENTIAL IMPACTS | PROPOSED MITIGATION/COMPENSATION | SIGNIFICANCE OF RESIDUAL EFFECT |
|------------------------------|---|--|---|
| | | | <p>mitigation measures in respect of roosting bats would be the subject of an Natural Resources Wales (NRW) European Protected Species Licence (EPSL) (if necessary), which would be informed by pre-construction survey data.</p> <p>No significant residual effect is likely in the short term and mid to long term, on the local conservation status of bat populations following the implementation of the EPSL mitigation/compensation measures agreed with NRW, based upon survey data to date and the commitment to mitigation/compensation for loss of Potential Roost Features (PRF) made in Section 6.3.2 of the OLEMP.</p> |
| Badger | <p>No known setts will be directly affected, either via disturbance or damage.</p> <p>Temporary loss of foraging habitat along the onshore ECC, permanent loss of c. 5 ha of foraging habitat at the OnSS.</p> <p>Accidental killing and injury.</p> <p>The project is not predicted to significantly adversely affect the local population due to the abundance of adjacent unaffected agricultural grassland. However, in view of the species' legal protection mitigation measures are proposed.</p> | <p>Pre-construction surveys and reasonable avoidance measures would be used to reduce the risk of committing an offence under the protecting legislation.</p> | <p>No significant effect is likely.</p> |
| Otter | <p>No known holt sites will be affected, either via disturbance or damage.</p> <p>Temporary fragmentation of foraging areas/routes.</p> <p>Accidental killing and injury.</p> | <p>Pre-construction surveys and reasonable avoidance measures would be used to reduce the risk of committing an offence under the protecting legislation.</p> <p>These would be broadly similar to those described for badger (above).</p> | <p>No significant effect on the local conservation status is likely following the implementation of mitigation measures</p> |

| IMPORTANT ECOLOGICAL FEATURE | POTENTIAL IMPACTS | PROPOSED MITIGATION/ COMPENSATION | SIGNIFICANCE OF RESIDUAL EFFECT |
|---|---|--|---|
| | | <p>If pre-construction survey identifies new holts or resting places then a licence may be necessary from NRW depending on the nature of any impact.</p> <p>Further details are included in the OLEMP (application ref: 8.4).</p> | |
| Water Vole | <p>Based on current survey data there will be no impacts on water vole. If it is later confirmed to be present, then impacts could include</p> <p>Temporary loss of foraging and sheltering habitat.</p> <p>Temporary fragmentation of foraging areas/routes.</p> <p>Accidental killing and injury.</p> | <p>Pre-construction surveys and reasonable avoidance measures would be used to reduce the risk of committing an offence under the protecting legislation</p> <p>If pre-construction survey identifies active burrows, then mitigation would include scheduling of work to avoid sensitive periods of the water vole life cycle and deterrence or, if necessary, removal of water vole from areas where there is risk of injury or death in advance.</p> <p>Further details are included in the OLEMP (application ref: 8.4).</p> | No significant effect on the local conservation status is likely following the implementation of mitigation measures, if required. |
| Other S7 Mammal Species: hedgehog, brown hare, polecat. | <p>Temporary loss of foraging and sheltering habitat, permanent loss if present at the substation area.</p> <p>Temporary fragmentation of foraging areas/routes.</p> <p>Accidental killing and injury.</p> | <p>Reasonable avoidance measures would be used to minimize impacts.</p> <p>Refer to embedded mitigation at Section 5.9 of ES Volume 3, Chapter 5 and the OLEMP (application ref: 8.4).</p> | Not significant |
| OPERATION | | | |
| All important ecological features | <p>Disturbance or damage to features due to planned maintenance at the OnSS and along the ECC.</p> <p>Disturbance or damage to features due to operational noise and lighting at the OnSS.</p> | Through the adoption of good practice, which would include adoption of specific measures to avoid potential impacts to protected/ notable species or sensitive habitats. | Not significant |

| IMPORTANT ECOLOGICAL FEATURE | POTENTIAL IMPACTS | PROPOSED MITIGATION/COMPENSATION | SIGNIFICANCE OF RESIDUAL EFFECT |
|-----------------------------------|--|--|---------------------------------|
| | Disturbance or damage to features due to unplanned maintenance on the ECC. | Unplanned maintenance would be subject to any necessary consents and consultation with the relevant nature conservation bodies prior to work taking place. | |
| DECOMMISSIONING | | | |
| All important ecological features | Similar to construction, but in most cases impact magnitude will be much lower than during construction. | Similar to construction, where necessary. | Not likely to be significant |
| CUMULATIVE EFFECTS | | | |
| All important ecological features | Impacts upon protected or notable species or upon their resting or breeding sites. Habitat fragmentation and species isolation. Spread of INNS. Accidental pollution. | n/a | Not significant |

Table 19: Summary of predicted effects on ground conditions and land use receptors.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|---------------|-------------------------|---|---|
| CONSTRUCTION | | | | |
| Impact on soil quality - cable route installation: | Negligible | Medium | SMP provided as part of the outline CoCP | Minor adverse (Not Significant) |
| Impact on soil quality – OnSS | Low | Medium | SMP provided as part of the outline CoCP | Minor adverse (Not Significant) |
| Impact on soil quality - TJBs | Negligible | Medium | SMP and PPEIRP provided as part of the outline CoCP | Minor adverse (Not Significant) |
| Impact on soil quality - trenchless crossings | Negligible | Low | PPEIRP provided as part of the outline CoCP | Negligible adverse (Not Significant) |
| Contamination risk to construction workers and human receptors | Negligible | High | PPEIRP provided as part of the outline CoCP | Minor adverse (Not Significant) |
| Impacts on areas of mineral safeguarding | Negligible | Low | None required | Negligible adverse (Not Significant) |
| OPERATION | | | | |
| Impact on soil resource - cable route installation: | Low to Medium | Negligible | None required | Negligible to Minor adverse (Not Significant) |
| Impact on soil resource - OnSS | Medium | Negligible | None required | Minor adverse (Not Significant) |
| Impact on soil resource - Landfall infrastructure | Medium | Negligible | None required | Minor adverse (Not Significant) |
| Impacts on soil quality - OnSS | Medium | Negligible | None required | Minor adverse (Not Significant) |
| Impacts on areas of mineral safeguarding | Negligible | Low | None required | Negligible adverse (Not Significant) |
| DECOMMISSIONING | | | | |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|------------|-------------------------|---------------------|---|
| Decommissioning of cable route | Negligible | Low to high | None required | Negligible to minor adverse (Not Significant) |
| Decommissioning of OnSS and TJBs: Land Quality | Negligible | Low to medium | None required | Negligible to Minor adverse (Not Significant) |

CUMULATIVE

Potential cumulative effects on land use arising from the proposed care home are predicted to remain as **low** resulting in an effect of **minor adverse** and therefore not significant. The proposed solar farm is temporary and is a reversible feature, once decommissioned the site's former agricultural use can be restored. Therefore, no further assessment in relation to cumulative effects is therefore required.

INTER RELATIONSHIP

It is not considered likely that there would be any interrelationship effects in relation to land quality and ground conditions

TRANSBOUNDARY EFFECTS

It is not considered likely that there would be any transboundary effects in relation to land quality and ground conditions

Table 20: Summary of predicted effects on hydrology, hydrogeology and flood risk.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|-------------------|-------------------------|--|---|
| CONSTRUCTION | | | | |
| Onshore ECC installation: water quality of watercourses | Low | Low to Medium | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Minor Adverse not significant |
| Onshore ECC installation: water quality for near shore coastal waters and the Clwyd transitional waters | Negligible | Medium | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Minor Adverse not significant |
| Onshore ECC installation: groundwater quality | Negligible to Low | Low to Medium | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Negligible to Minor Adverse not significant |
| Onshore ECC installation: flood risk from construction activities | Negligible | Low | None in addition to mitigation within the Outline CoCP (application ref:8.13) and Onshore ECC FCA (Annex 7.1, Application ref 6.5.7.1) | Negligible Adverse not significant |
| OnSS construction: water quality in watercourses | Low | Low | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Minor Adverse not significant |
| OnSS construction: groundwater quality | Negligible | Low to Medium | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Negligible to Minor Adverse not significant |
| OnSS construction: flood risk | Negligible | Low | None in addition to mitigation within the Outline CoCP (application ref:8.13) and ONSS FCA (Annex 7.2, Application ref 6.5.7.2) | Negligible Adverse not significant |
| OnSS TCC construction: flood risk | Negligible | Low | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Negligible Adverse not significant |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|-------------------|-------------------------|---|---|
| Trenchless crossing works: water quality for near shore coastal waters and the Clwyd transitional waters | Negligible | High | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Minor Adverse not significant |
| Trenchless crossing works: surface water quality | Low | Low to Medium | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Minor Adverse not significant |
| Trenchless crossing works: groundwater quality | Negligible to Low | Low to Medium | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Negligible to Minor Adverse not significant |
| Trenchless crossing works: Flood risk | Negligible | Low | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Negligible Adverse not significant |
| Trenchless crossing works: Flood risk from TCC | Negligible | Low | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Negligible Adverse not significant |
| Landfall installation: near-shore coastal water | Negligible | High | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Minor Adverse not significant |
| Landfall installation: surface water quality | Low | Low to Medium | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Minor Adverse not significant |
| Landfall installation: trenchless crossing on groundwater quality | Low | Low to Medium | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Minor Adverse not significant |
| Landfall installation: groundwater quality | Low | Low to Medium | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Minor Adverse not significant |
| Landfall installation: Watercourse Flood risk | Negligible | Low | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Negligible Adverse not significant |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|------------|-------------------------|---|---|
| Landfall installation: Tidal Flood risk | Negligible | Low | None in addition to mitigation within the Outline CoCP (application ref:8.13) | Negligible Adverse not significant |
| OPERATION | | | | |
| Permanent Onshore ECC infrastructure: water quality and flood risk | Negligible | Low to Medium | None required | Negligible to Minor Adverse not significant |
| OnSS: flood risk | Negligible | Low | None required | Negligible Adverse not significant |
| OnSS: water quality | Negligible | Low to Medium | None required | Negligible to Minor Adverse not significant |
| Permanent Landfall infrastructure: water quality and flood risk | Negligible | Low to Medium | None required | Negligible to Minor Adverse not significant |
| DECOMMISSIONING | | | | |
| Decommissioning of Onshore ECC on flood risk and water quality | Negligible | Low to Medium | None required | Negligible to Minor Adverse not significant |
| Decommissioning of OnSS: flood risk | Negligible | Low | None required | Negligible Adverse not significant |
| Decommissioning of OnSS: water quality | Negligible | Low to Medium | None required | Negligible to Minor Adverse not significant |
| CUMULATIVE | | | | |
| Given the timing of proposed construction activities for the projects listed in Table 12, the scale of developments, their proximity away from the OL and the requirements to control potential detrimental effects of development on flood risk and water quality, no significant cumulative hydrology, hydrogeology and flood risk effects arising during the construction phase of these new developments are likely. All other onshore projects are noted to be beyond the study area or are in separate hydraulic catchments to the onshore ECC. | | | | |

Table 21: Summary of predicted effects on onshore Archaeology and Cultural Heritage receptors.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|-------------|-------------------------|--|--------------------|
| CONSTRUCTION | | | | |
| Disturbance to assets identified on foreshore | High | Low to Medium | Preservation by record | Minor Adverse |
| Disturbance to ridge and furrow Identified on LiDAR (Direct Effect) | High | Low | Preservation by record | Minor Adverse |
| Extant ridge and furrow earthworks (Direct Effect) | High | Low | Preservation by record | Minor Adverse |
| Potential Roman Road and associated activity (Direct Effect) | High | Low to Medium | Preservation by record | Minor Adverse |
| Potential Geoarchaeological Deposits (Direct Effect) | High | Medium | Preservation by record | Minor Adverse |
| Geophysical Anomalies of potential archaeological origin (Direct Effect) | High | Low to Medium | Preservation by record | Minor Adverse |
| Unknown archaeological remains (Direct Effect) | High | Unknown | Preservation by record | Unknown |
| Historic Hedgerows (Direct Effect) | Medium | Low | Minimise hedgerow removal as far as possible and reinstate hedgerow following completion of construction phase | Negligible Adverse |
| Bryn Cwnin Farmhouse and L-Plan Range of Farm buildings (Indirect effect) | Negligible | High | None proposed | Negligible Adverse |
| Tyddyn Isaf (Indirect effect) | Negligible | High | None proposed | Negligible Adverse |
| Barn to NW Faenol-Bropor Farmhouse (Indirect effect) | Low Adverse | High | None proposed | Minor Adverse |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|---------------------|-------------------------|------------------------|---------------------|
| Bodelwyddan Castle (Indirect effect) | Low Adverse | High | None proposed | Minor Adverse |
| Bryn Celyn Lodge (Indirect effect) | No effect predicted | High | None proposed | Negligible Adverse |
| Rhuddlan Chain Home Radar Station (Geophysical anomaly) (Direct Effect) | Medium | Medium | Preservation by record | Minor Adverse |
| OPERATION | | | | |
| Archaeological Assets (Direct Effect) | No impact | Low to Medium | None proposed | No effect predicted |
| Historic Hedgerows (Direct effect) | No impact | Medium | None proposed | No effect predicted |
| Barn to NW of Faenol-Bropor (Indirect effect) | Minor Adverse | High | None proposed | Minor Adverse |
| Bodelwyddan Castle (Indirect effect) | Minor Adverse | High | None proposed | Minor Adverse |
| Bryn Celyn Lodge (Indirect effect) | No impact predicted | High | None proposed | No effect predicted |
| Beaumaris Castle (indirect effect) | Negligible | High | None proposed | Negligible |
| Conwy Castle and Town Walls (indirect effect) | Negligible | High | None proposed | Negligible |
| Penrhyn Castle (indirect effect) | Negligible | High | None proposed | Negligible |
| Slate Landscapes of NW Wales (component part 1) (indirect effect) | Negligible | Very High | None proposed | Negligible |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|---------------------|-------------------------|---|---------------------|
| Gwrych Castle (indirect effect) | Negligible | High | None proposed | Negligible |
| Trwyn Du (Penmon) lighthouse (indirect effect) | Negligible | High | None proposed | Negligible |
| Puffin Island Tower and remains of church and monastic settlement (indirect effect) | Negligible | High | None proposed | Negligible |
| Puffin Island Telegraph Station (indirect effect) | Negligible | High | None proposed | Negligible |
| Pen y Dinas Hillfort (indirect effect) | Negligible | High | None proposed | Negligible |
| Bangor Pier (Indirect effect) | Negligible | High | None proposed | Negligible |
| Menai Bridge (indirect effect) | Negligible | High | None proposed | Negligible |
| Llandudno Conservation Area (indirect Effect) | Minor Adverse | Medium | None proposed | Minor Adverse |
| Llandudno Pier (indirect effect) | Moderate Adverse | High | None Proposed | Moderate adverse |
| HLWs 23, 28, 30 and 33 | Negligible | High | None proposed | Negligible |
| DECOMMISSIONING | | | | |
| Archaeological Assets (Direct effect) | No effect predicted | Low to Medium | None proposed | No effect predicted |
| Historic Hedgerows (Direct effect) | No effect predicted | Low | Hedgerows (which are those reinstated after construction) will again be reinstated. Any associated archaeological impact will have already been mitigated in relation to the construction | No effect predicted |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|--|-------------------------|---|---------------------|
| | | | effects, and no additional impact is anticipated. No mitigation is proposed or considered necessary | |
| Heritage Assets (indirect effect on Setting from removal of onshore and offshore infrastructure) | No effect predicted (setting effectively restored) | Low to High | None proposed or considered necessary | No effect predicted |
| CUMULATIVE EFFECTS | | | | |
| No cumulative effects reported | | | | |

Table 22: Summary of predicted effects on traffic and transport.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTORS | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|---|--------------------------|---|---|
| CONSTRUCTION | | | | |
| Driver delay and severance - increase in vehicle movements | Low adverse | Negligible | Measures within Outline CTMP (Appendix 7 of the Outline CoCP (application ref: 8.13.7)) and the Outline TP (Appendix 9 of the Outline CoCP (application ref: 8.13.9)) | Negligible adverse (not significant) |
| Driver delay and severance - use of open trenching | Negligible to low/medium | Negligible to high | Measures within Outline CTMP | Negligible adverse to Minor adverse (not significant) |
| Community severance | Negligible adverse | Low to high | None | Minor adverse |
| Vulnerable road users and road safety | Negligible to low adverse | Low to high | Measures within Outline CTMP | Minor adverse (not significant) |
| Dust and dirt | Negligible to low adverse | Low and high | Measures within Outline CTMP | Negligible to Minor adverse (not significant) |
| Dangerous loads | Negligible | Low and medium | Any measures identified in ALAR to be prepared post consent. | Negligible and Minor adverse (not significant) |
| Users of ATRs and PRoW | Negligible to high | Low to very high | Measures within Outline PAMP (Appendix 8 of the Outline CoCP (application ref: 8.13.8)) | Negligible to minor adverse (not significant) |
| DECOMMISSIONING | | | | |
| Likely traffic and transport impacts associated with decommissioning activities. | Comparable to construction and lesser if underground cables remain in situ. | | | |
| CUMULATIVE EFFECTS | | | | |
| No assessment required | | | | |

Table 23: Summary of predicted effects on airborne noise and vibration receptors.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL MAGNITUDE OF IMPACT | RESIDUAL LEVEL OF EFFECT AND SIGNIFICANCE |
|---|---|--|---|---|---|
| CONSTRUCTION | | | | | |
| Noise levels generated from landfall construction | High (daytime) High (weekend) | Medium (daytime, weekend) | Relevant detailed design measures relating to noise mitigation, as outlined in Table 50 of ES Volume 3, Chapter 10. | Negligible or Low | Minor Adverse (not significant) |
| Noise levels from landfall HDD drilling | Negligible (daytime) High (evening, weekend, night-time) | Medium (daytime, evening, weekend) High (night-time) | Relevant detailed design measures relating to noise mitigation, as outlined in Table 50 of ES Volume 3, Chapter 10. | Daytime, evening, weekend – Negligible or Low Night-time – Negligible | Minor Adverse (not significant) |
| Noise levels generated from onshore ECC construction | High (daytime) High (weekend) | Medium (daytime, evening) | Relevant detailed design measures relating to noise mitigation, as outlined in Table 50 of ES Volume 3, Chapter 10. | Negligible or Low | Minor Adverse (not significant) |
| Noise levels generated from onshore ECC HDD drilling | Low (daytime) High (evening, weekend, night-time) | Medium (daytime, evening, weekend) High (night-time) | Relevant detailed design measures relating to noise mitigation, as outlined in Table 50 of ES Volume 3, Chapter 10. | Daytime, evening, weekend – Negligible or Low Night-time – Negligible | Minor Adverse (not significant) |
| Noise levels generated by ORAR construction | High (daytime, weekend) | Medium (daytime, weekend) | Relevant detailed design measures relating to noise mitigation, as outlined in Table 50 of ES Volume 3, Chapter 10. | Daytime, weekend – Negligible or Low | Minor Adverse (not significant) |
| Noise levels generated by OnSS construction | Negligible | Medium | No further mitigation measures required | Negligible | Minor Adverse (not significant) |
| Noise levels generated by the construction of the Array | Negligible (midweek, | Medium (daytime, | Implementation of relevant planning conditions specifying noise limits in neutral weather conditions only. | Negligible | Minor Adverse (not significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL MAGNITUDE OF IMPACT | RESIDUAL LEVEL OF EFFECT AND SIGNIFICANCE |
|--|--|---|--|---|---|
| | evening, weekend) Negligible (night-time - inclement weather) Low (night-time – neutral weather) | evening, weekend) High (night-time) | | | |
| Vibration levels generated by HDD (or other trenchless technique) operations | Medium | Medium (daytime, evening, weekend) High (night-time) | Notification of HDD (or other trenchless technique) works given to any receptors within 55 m of the HDD drilling operations during the daytime, weekend and evening periods and within 140m during the night-time. | Daytime, evening, weekend - Low Night-time - Negligible | Minor Adverse (not significant) |
| Vibration levels generated by HDD vibratory piling operations | Medium (daytime only) | Medium | Notification of piling works given to any receptors within 75 m of the HDD drilling operations. | Low | Minor Adverse (not significant) |
| Vibration levels generated by cofferdam and OnSS piling operations | Low | Medium | Implementation of NVMP | Low | Minor Adverse (not significant) |
| Noise levels generated by construction traffic on the local road network | Low | Medium | None required. | Low | Minor Adverse (not significant) |
| Noise levels generated by construction traffic on the ORAR | Negligible (daytime) High (evening, weekend) Medium (night-time) | Medium (daytime, evening, weekend) High (night-time) | Relevant detailed design measures relating to noise mitigation, as outlined in Table 50 of ES Volume 3, Chapter 10. | Daytime, evening, weekend – Negligible or Low Night-time – Negligible | Minor Adverse (not significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL MAGNITUDE OF IMPACT | RESIDUAL LEVEL OF EFFECT AND SIGNIFICANCE |
|---|--|---|---|------------------------------|---|
| OPERATION | | | | | |
| Operational noise levels generated by the OnSS on residential receptors | Negligible (daytime, evening, weekend) High (night-time) | Medium (daytime, evening, weekend) High (night-time) | Reduction in operational noise levels through the use of acoustic enclosures, silencers and covers. | Negligible | Minor Adverse (not significant) |
| Operational noise levels generated by the OnSS on commercial receptors | Negligible | Low | No further mitigation measures required assuming that the measures for the residential receptors have been implemented. | Negligible | Minor Adverse (not significant) |
| DECOMMISSIONING | | | | | |
| Noise and vibration levels generated by decommissioning activities | Not anticipated to exceed construction phase worst-case criteria. Potential impacts reduced as it is assumed that no night-time or piling decommissioning operations are required. | | | | |
| CUMULATIVE EFFECTS | | | | | |
| Noise levels generated from the OnSS and gas fired power station | Low | Medium (daytime, evening, weekend) High (night-time) | No further mitigation measures required as it is concluded that the noise level at the NSR from the OnSS is negligible compared to the gas fired power station. | Negligible | Minor Adverse (not significant) |

Table 24: Summary of predicted effects on air quality receptors.

| Impact | Magnitude | Sensitivity of Receptor | Mitigation Measures | Residual Effect |
|---|--|-------------------------|--|-----------------|
| Construction | | | | |
| Dust/ PM ₁₀ generated from temporary construction activities | Low - High | Low - High | Implementation of best-practice mitigation as specified in industry guidance via a CoCP | Negligible |
| Temporary construction-generated road traffic volumes on human receptors | Negligible (below relevant screening criteria) | High | Not required | Negligible |
| Temporary construction-generated road traffic volumes on ecological receptors | Negligible (below relevant screening criteria) | Medium - Low | Not required | Negligible |
| Operation | | | | |
| Likely air quality impacts associated with operational activities | Negligible | High | Not required | Negligible |
| Decommissioning | | | | |
| Likely air quality impacts associated with decommissioning activities. | Comparable to construction, perhaps lesser if underground cables remain in situ. | | | |
| Cumulative Effects | | | | |
| Cumulative dust/ PM ₁₀ generated from temporary concurrent construction activities | Low - High | Low - High | Implementation of best-practice mitigation as specified in industry guidance via a CoCP. All schemes which are considered to pose a potential cumulative effect will have had to undertake a construction dust assessment separately relating to their own site activities and associated risks, with the recommendation of best practice mitigation. | Negligible |

Table 25: Summary of predicted effects on public health receptors.

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|---|-------------------------|--|---|
| CONSTRUCTION | | | | |
| For impacts on health due to traffic emissions see Table 25 in Volume 3, Chapter 11: Air quality | Negligible (below relevant screening criteria) | High | Not required | Negligible (not significant) |
| For impacts on health due to dust emissions see Table 25 in Volume 3, Chapter 11: Air quality | Low to Medium | Low to High | Implementation of best-practice mitigation as specified in industry guidance via a CoCP | Negligible (not significant) |
| For impacts on health due to water emissions see Table 13 in Volume 3, Chapter 7, Hydrology, hydrogeology and flooding | Negligible to Low | Low to Medium | Pollution Prevention and Emergency Incident Response Plan (PPEIRP) provided as part of the outline Code of Construction Practice (OCoCP) | Minor adverse (not significant) |
| For potential impacts on health caused by soil contamination see Table 13 in Volume 3, Chapter 6: Ground Conditions and Land Use | Negligible | High | PPEIRP provided as part of the OCoCP | Minor adverse (Not Significant) |
| For potential impacts on health caused by Noise see Table 80 in Volume 3, Chapter 9: Airborne noise and vibration | Negligible to High | Medium to High | NVMP provided as part of the OCoCP | Minor adverse (not Significant) |
| For potential impacts on health caused by Vibration see Table 80 in Volume 3, Chapter 9: Airborne noise and vibration | Negligible to High | Medium to High | Prior warning to sensitive residential receptors. | Minor adverse (not Significant) |
| For potential impacts due to disruption to local road network see Table 38 in Volume 3, Chapter 9: Traffic and Transport | Negligible to low/medium | Negligible to high | Measures within OCTMP | Negligible adverse to Minor adverse (not significant) |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|--|--|-------------------------|---|---|
| OPERATION | | | | |
| For impacts on health due to traffic emissions see Table 25 in Volume 3, Chapter 11: Air quality | Negligible (below relevant screening criteria) | High | Not required | Negligible (not significant) |
| For impacts on health due to water emissions see Table 13 in Volume 3, Chapter 7, Hydrology, hydrogeology and flooding | Negligible | Low to Medium | None required | Negligible to Minor adverse (not significant) |
| For potential impacts on health caused by Noise see Table 80 in Volume 3, Chapter 9: Airborne noise and vibration | High | High | Reduction in operational noise levels through the use of acoustic enclosures, silencers and covers. | Minor Adverse (not significant) |
| Impacts on health due to electromagnetic radiation exposure | Negligible | Low | None Required | Negligible (not significant) |
| DECOMMISSIONING | | | | |
| For impacts on health due to dust and traffic emissions see Table 25 in Volume 3, Chapter 11: Air quality. | Comparable to construction, perhaps lesser if underground cables remain in situ. | | | |
| For impacts on health due to water emissions see Table 13 in Volume 3, Chapter 7, Hydrology, hydrogeology and flooding | Negligible | Low to Medium | None required | Negligible to Minor adverse (Not significant) |
| For potential impacts on health caused by Noise Table 80 in Volume 3, Chapter 9: Airborne noise and vibration | Not anticipated to exceed construction phase worst-case criteria. Potential impacts reduced as it is assumed that no night-time or piling decommissioning operations are required. | | | |
| For potential impacts due to disruption to local road network | Comparable to construction, perhaps lesser if underground cables remain in situ. | | | |

| IMPACT | MAGNITUDE | SENSITIVITY OF RECEPTOR | MITIGATION MEASURES | RESIDUAL EFFECT |
|---|--|-------------------------|---------------------|-----------------|
| see Table 38 in Volume 3, Chapter 9: Traffic and Transport | | | | |
| For impacts on health due to electromagnetic radiation exposure | Upon decommissioning the negligible adverse affect during operation would become neutral | | | |



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