

Wylfa Newydd Project

6.9.12 ES Volume I - Cumulative effects App
I5-1 - Inter-project cumulative effects

PINS Reference Number: EN010007

Application Reference Number: 6.9.12

June 2018

Revision 1.0

Regulation Number: 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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Table 1-1 Inter-project cumulative effects

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
Socio-economics					
Labour market in the Daily Construction Commuting Zone (DCCZ)	Major beneficial effect due to changes to employment in the construction sector in the DCCZ. Approximately 2,000 home-based workers will be employed during the peak period of construction.	A5025 On-line Highway Improvements, visitor centre, Existing Power Station decommissioning, Anglesey Eco Park, Penhos Coastal Park, Holyhead Waterfront Redevelopment, Parc Cybi Stage 2, North Wales Connection Project, Rhyd-y-Groes Re-power, Menai Science Park, Amlwch Natural Gas, Holyhead Deep, Holyhead Primary School, Llanfaethlu Primary School, Llangefni Link Road, Utilities Diversions, Llanbadrig Solar Farm, Coleg Menai, Wylfa Newydd Potable Water Supply, Holyhead Port Expansion, Glyn Rhonwy Pumped Storage, and A487 Caernarfon to Bontnewydd Bypass are all projects that could increase the demand for more home-based workers within the DCCZ.	Demand on the existing construction sector locally could increase significantly. This would create opportunities for the existing local construction workforce and it may also provide opportunities to reduce the number of unemployed workers within the sector. Cumulatively, this increased demand may result in workers relocating to the area to avail themselves of the opportunities these projects collectively present.	None required	Major beneficial
Labour market on the Isle of Anglesey	Moderate beneficial effect due to changes to employment in the construction sector on Anglesey. Approximately 1,256 home-based workers will be employed during the peak period of construction.	A5025 On-line Highway Improvements, visitor centre, Existing Power Station decommissioning, Anglesey Eco Park, Penhos Coastal Park, Holyhead Waterfront Redevelopment, Parc Cybi Stage 2, North Wales Connection Project, Rhyd-y-Groes Re-power, Menai Science Park, Amlwch Natural Gas, Holyhead Deep, Holyhead Primary School, Llanfaethlu Primary School, Llangefni Link Road, Utilities Diversions, Llanbadrig Solar Farm, Coleg Menai, Wylfa Newydd Potable Water Supply, Holyhead Port Expansion, Glyn Rhonwy Pumped Storage, and A487 Caernarfon to Bontnewydd Bypass Existing Power Station decommissioning are all projects that could increase the demand for more home-based workers on Anglesey.	Demand on the existing construction sector locally could increase significantly. This would create opportunities for the existing local construction workforce and it may also provide opportunities to reduce the number of unemployed workers within the sector. Cumulatively, this increased demand may result in workers relocating to the area to avail themselves of the opportunities these projects collectively present.	None required	Moderate beneficial

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
Private Rented Stock (PRS) accommodation in the key socio-economic study area (KSA)	Minor adverse effect due to the number of available bed spaces within the PRS, which is estimated to be just under 1,650 while demand for bed spaces in this sector is estimated to be 900. The current constraints on this sector locally are noted as are potential sub-area constraints.	Existing Power Station decommissioning and North Wales Connection Project could lead to further demand for PRS accommodation due to the long-term nature of their works programmes.	It is recognised that increased employment from the Wylfa Newydd Project and other projects could create increased demand for housing within the local area if the peak construction programmes overlap, drawing workers into the area to reside. There is the potential for significant cumulative effects on the ability of the local housing stock to meet the demand when all shortlisted projects are combined.	None required	Minor adverse
Tourism sector	A minor adverse effect on the Anglesey tourism. As an economic sector and destination brand, it could be affected by the Wylfa Newydd Project. It is not feasible to accurately assess the potential scale of 'brand' effects. Assessment presented is considered to be a worst-case position at this time.	A5025 On-line Highway Improvements, visitor centre, Existing Power Station decommissioning, Penrhos Coastal Park, Holyhead Waterfront Redevelopment, Parc Cybi Stage 2, and Holyhead Port Expansion Existing Power Station decommissioning are all projects that could have an effect on Anglesey as a 'destination brand'.	The extent of construction and decommissioning work occurring in the north of Anglesey, at the same time would be substantial. It is recognised that concerns exist for visitor numbers and therefore revenue generation in certain areas on Anglesey, particularly Cemaes.	None required	Minor adverse
Local economy in north Wales	Moderate beneficial effect on investment made within the local economy (north Wales). It is estimated that up to 4% of the total £10 billion construction value of the Wylfa Newydd Project could be spent within north Wales.	A5025 On-line, visitor centre, Existing Power Station decommissioning, Anglesey Eco Park, Penrhos Coastal Park, Holyhead Waterfront Redevelopment, Parc Cybi Stage 2, North Wales Connection Project, Rhyd-y-Groes Re-power, Menai Science Park, Amlwch Natural Gas, Holyhead Deep, Llangefni Link Road, Utilities Diversions, Llanbadrig Solar Farm, Coleg Menai, Holyhead Port Expansion, and A487 Caernarfon to Bontnewydd Bypass are all significant projects that will contribute to the economy in north Wales.	Investment in the north Wales economy (business and supply chain) would increase due to the investment that would occur as part of the Wylfa Newydd Project and the shortlisted projects.	None required	Moderate beneficial
Local economy on the Isle of Anglesey	Moderate beneficial effect on the annual average	A5025 On-line, visitor centre, Existing Power Station decommissioning, Anglesey Eco Park,	Investment in the Anglesey economy (business and	None required	Moderate beneficial

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
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	direct, indirect and induced increase in income of around £20 million on Anglesey from staff costs at the Wylfa Newydd Power Station, equivalent to an increase of 2.1% over baseline levels.	Penrhos Coastal Park, Holyhead Waterfront Redevelopment, Parc Cybi Stage 2, North Wales Connection Project, Rhyd-y-Groes Re-power, Menai Science Park, Amlwch Natural Gas, Holyhead Deep, Llangefni Link Road, Utilities Diversions, Llanbadrig Solar Farm, Coleg Menai, Holyhead Port Expansion, and A487 Caernarfon to Bontnewydd Bypass Existing Power Station decommissioning are all substantial projects that will contribute to the economy locally, on Anglesey.	supply chain) will increase due to the investment that would occur as part of the Wylfa Newydd Project and the shortlisted projects.		
Businesses, including tourism receptors (Cemaes / Tregele)	Potential minor to moderate adverse environmental effects and traffic of construction works on local businesses (including tourism receptors and other commercial receptors) located within the Local Area of Influence.	A5025 On-line Highway Improvements and Existing Power Station decommissioning works also have potential for adverse environmental and traffic effects from construction works on local businesses (including tourism receptors and other commercial receptors) located within the Local Area of Influence.	The Wylfa Newydd Project and the A5025 On-line Highway Improvements could both contribute to adverse environmental and traffic effects, at the same time.	None identified	Minor-moderate adverse
Local services	Minor adverse effect on local services due to increased demand from workers who may relocate to the area, for local services.	Existing Power Station decommissioning and the North Wales Connection Project, have such substantial staffing requirements that their workers could cause an increased demand on local services.	There is the potential for effects on public services from the Wylfa Newydd Project and other projects on the short list as a result of increased demand from workers who may relocate to the area. There is a potential for a cumulative effect should appropriate management of the supply of public services not be considered across all projects.	None required	Minor adverse
Agricultural land	Minor adverse effect. There are a number of isolated and limited areas of agricultural land subject to land take, of different grades, some Best and Most Versatile and others poor quality.	Anglesey Eco Park, Parc Cybi Stage 2, North Wales Connection Project, Menai Science Park, Llangefni Link Road, Llanbadrig Solar Farm, and A487 Caernarfon to Bontnewydd Bypass all have the potential to result in the loss of agricultural land.	A review of available information indicates that a number of the projects have the potential to affect the quantity of Best and Most Versatile land on Anglesey. The combined effects could result in a reduction in the quantity of agricultural land, and may	None required	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
			have a cumulative effect on the agricultural sector locally.		
Traffic and transport – Projects considered to have a cumulative effect have been included in the traffic model and therefore form part of the assessment of effects that is presented in Volume C.					
Public access and recreation					
Public Rights of Way (PRoWs) 29/008/1 and 29/009/1	Minor adverse effect on recreational amenity as a result of the construction and decommissioning of the Off-Site Power Station Facilities. Minor adverse effect on the recreational amenity as a result of the construction of the A5025 Off-line Highway Improvements at Llanfaethlu.	Minor adverse effect on recreational amenity as a result of the construction of the A5025 On-line Highway Improvements.	The cumulative effect would result in a greater length of time that PRoWs would be closed or diverted than would result from one project alone. Where construction programmes overlap, the recreational amenity of these PRoWs would be reduced as a result of the noise, dust and visual intrusion caused by construction activities from both developments.	None identified	Minor adverse
PRoW 18/018/1	Major adverse effect as a result of the closure of this PRoW as part of the A5025 Off-line Highway Improvements.	Minor adverse effect as a result of short-term PRoW closures or diversions during construction of the A5025 On-line Highway Improvements. Minor adverse effect from the reduction in recreational amenity of these routes as a result of the air, noise and visual intrusion caused by the construction of the A5025 On-line Highway Improvements.	Permanent closure of the PRoW previously subject to temporary diversions.	No additional mitigation required. An alternative route has been included in the design of the Cefn Coch bypass which would be used once the A5025 Off-line Highway Improvements became operational.	Major adverse
PRoWs 20/010/1, 20/010/2 and 20/032/1	There would be a minor to moderate adverse effect on these PRoWs as a result of the noise and/or visual impact, which would result in a reduction of the recreational amenity of these routes during construction of the Power Station.	There would be a minor adverse effect on these PRoWs as a result of the activities undertaken by National Grid to install the new 400kV overhead line. This effect would include management of the PRoWs during construction work and the visual impact of the new lines being installed.	The cumulative effect would result in these PRoWs being affected by noise and visual intrusion from two concurrent construction activities, which would increase the effect experienced by recreational walkers.	None identified	Minor to moderate adverse effect
PRoW 27/012/1	Minor adverse effect as a result of short-term PRoW closures or diversions as a	Minor adverse effect as a result of short-term PRoW closures or diversions during construction of the A5025 On-line Highway Improvements.	The cumulative effect would result in a greater length of time that this	None identified	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
	<p>result of the construction of the A5025 Off-line Highway Improvements.</p> <p>Minor adverse effect on recreational amenity of this PRoW during construction and operation of the A5025 Off-line Highway Improvements</p> <p>Minor adverse effect on recreational amenity as a result of the operation of the A5025 Off-line Highway Improvements.</p>	Minor adverse effect from the reduction in recreational amenity of these routes as a result of the air, noise and visual intrusion caused by the construction of the A5025 On-line Highway Improvements.	PRoW would be closed or diverted than would occur from one project alone. Where construction programmes do overlap, the recreational amenity of this PRoW would be reduced as a result of the noise, dust and visual intrusion caused by construction activities from both projects.		
PRoW 27/020/1	<p>Minor adverse effect as a result of short-term PRoW closures or diversions as a result of the construction of the A5025 Off-line Highway Improvements.</p> <p>Minor adverse effect on recreational amenity of this PRoW during construction and operation of the A5025 Off-line Highway Improvements.</p> <p>Moderate adverse effect as a result of the permanent diversion of this PRoW.</p>	<p>Minor adverse effect as a result of short-term PRoW closures or diversions during construction of the A5025 On-line Highway Improvements.</p> <p>Minor adverse effect from the reduction in recreational amenity of these routes as a result of the air, noise and visual intrusion caused by the construction of the A5025 On-line Highway Improvements.</p>	The cumulative effect would result in a greater length of time that this PRoW would be closed or diverted than would occur from one project alone. Where construction programmes do overlap, the recreational amenity of this PRoW would be reduced as a result of the noise, dust and visual intrusion caused by construction activities from both projects.	None identified	Moderate adverse
PRoWs 27/017/1, 27/018/1	<p>Minor adverse effect as a result of short-term PRoW closures or diversions as a result of the construction of the A5025 Off-line Highway Improvements.</p> <p>Minor adverse effect on recreational amenity of these PRoWs during construction and operation of the A5025 Off-line Highway Improvements.</p>	<p>Minor adverse effect as a result of short-term PRoW closures or diversions during construction of the A5025 On-line Highway Improvements.</p> <p>Minor adverse effect as a result in the reduction in recreational amenity of these routes as a result of the air, noise and visual intrusion caused by the construction of the A5025 On-line Highway Improvements.</p>	The cumulative effect would result in a greater length of time that these PRoWs would be closed or diverted than would occur from one project alone. Where construction programmes do overlap, the recreational amenity of these PRoWs would be reduced as a result of the noise, dust and visual intrusion caused by	None identified	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
	Minor adverse effect as a result of the permanent diversion of this PRoW.		construction activities from both projects.		
PRoW 49/016/2, 49/014/2, 38/013/2, 18/067/1, 29/013/1	Minor adverse effect as a result of short-term PRoW closures or diversions as a result of the construction of the A5025 Off-line Highway Improvements. Minor adverse effect on recreational amenity of these PRoW during construction of the A5025 Off-line Highway Improvements.	Minor adverse effect as a result of short-term PRoW closures or diversions during construction of the A5025 On-line Highway Improvements. Minor adverse effect as a result in the reduction in recreational amenity of these routes as a result of the air, noise and visual intrusion caused by the construction of the A5025 On-line Highway Improvements.	The cumulative effect would result in a greater length of time that PRoW would be closed or diverted than would occur from one project alone. Where construction programmes overlap, the recreational amenity of these PRoWs would be reduced as a result of the noise, dust and visual intrusion caused by construction activities from both projects.	None identified	Minor adverse
Recreational walkers and cyclists on minor roads as they link to A5025	Minor adverse effect as a result of traffic management delays associated with the tie-ins of the A5025 Off-line Highway Improvements. Minor adverse effect as a result of increased traffic flows associated with the construction of the Power Station.	Minor adverse effect as a result of the traffic management associated with the construction of the A5025 On-line Highway Improvements and recreational amenity of the routes as a result of noise and dust generated by the construction activities.	The cumulative effect would result in a greater length of time that PRoW would be closed or diverted than would occur from one project alone. Where construction programmes overlap, the recreational amenity of these PRoWs would be reduced as a result of the noise, dust and visual intrusion caused by construction activities from both projects.	None identified	Minor adverse
Recreational cyclists and walkers between Junction 3 of A55 Road and Wylfa Newydd Development Area (A5 and A5025)	Minor adverse effect as a result of traffic management delays associated with the tie-ins of the A5025 Off-line Highway Improvements. Minor adverse effect as a result of increased traffic flows associated with the	Minor adverse effect as a result of the traffic management associated with the construction of the A5025 On-line Highway Improvements and recreational amenity of the routes as a result of noise and dust generated by the construction activities.	A cumulative effect would occur due to additional time that traffic management would be on the A5025 as a result of the A5025 On-line Highway Improvements and Wylfa Newydd Project activities.	None identified	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
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	construction of the Power Station.				
Active travel cyclists and walkers between Junction 3 of A55 and Wylfa Newydd Development Area (A5 and A5025)	Minor adverse effect as a result of traffic management delays associated with the tie-ins of the A5025 Off-line Highway Improvements. Minor adverse effect as a result of increased traffic flows associated with the construction of the Power Station.	Minor adverse effect as a result of the traffic management associated with the construction of the A5025 On-line Highway Improvements and recreational amenity of the routes as a result of noise and dust generated by the construction activities.	A cumulative effect would occur due to increased time that traffic management would be on the A5025.	None identified	Minor adverse
Wales Coast Path (WCP) between Cemlyn Bay (east) and Cemaes/Wylfa Head	Major adverse effect as a result of the diversion of the WCP during construction and operation of the Power Station. Major adverse effect as a result of the reduction in recreational amenity as a result of the noise, dust and visual intrusion as a result of the construction of the Power Station.	Minor adverse effect as a result of the noise, dust and visual intrusion associated with the construction of the visitor centre. Moderate beneficial effect as a result of the operation of the proposed visitor centre as it would provide a recreational resource for users of the WCP in terms of parking and café facilities. Minor adverse effect as a result of temporary diversions to the re-aligned WCP in order to construct the new overhead power line near Cemaes.	If the visitor centre was constructed at the same time as the construction of the Power Station the additional effect on this construction site would be minimal. Should it occur once construction of the Power Station was complete, it would increase the length of time that users of the WCP were affected. In the longer term, the cumulative effect of the diversion of the WCP and the construction of the visitor centre would provide a resource for visitors to the WCP. There would be a short period of time where walkers on the diverted WCP would be subject to an additional minor diversion where the amended route goes under the proposed route of the National Grid 400kV overhead line.	None required	Major adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
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Recreational and active travel users of the Lôn Trefignath	<p>Moderate adverse effect as a result of the construction of the new site entrance to the Logistics Centre and minor adverse effect on recreational amenity during the construction of the Logistics Centre.</p> <p>Minor adverse effect during the construction of the Power Station as a result of increased traffic flows across the Lôn Trefignath associated with the operation of the Logistics Centre.</p>	The building out of the Parc Cybi Business Park could result in additional crossing points across the Lôn Trefignath.	Parc Cybi Business Park together with the Wylfa Newydd Project would increase the effects of traffic flows across the Lôn Trefignath. While this would be an additive effect the number of vehicles is unlikely to represent a substantial increase due to the high number of vehicles associated with Horizon.	No additional mitigation required. Traffic flows along the spine road following development of the Parc Cybi Business Park would not substantially increase above the level associated with the Wylfa Newydd Project.	Moderate adverse
Active travel users the dual use cycleway/footway on Parc Cybi spine road	<p>Moderate adverse effect as a result of the construction of the new site entrance to the Logistics Centre and minor adverse effect on recreational amenity during the construction of the Logistics Centre.</p> <p>Minor adverse effect during the construction of the Power Station as a result of increased traffic flows across the dual use cycleway/footway associated with the operation of the Logistics Centre.</p>	The building out of the Parc Cybi Business Park could result in additional crossing points across the cycleway/footway.	Parc Cybi Business Park together with the Wylfa Newydd Project would increase the effects of traffic flows across the cycleway/footway. While this would be an additive effect the number of vehicles is unlikely to represent a substantial increase due to the high number of vehicles associated with Horizon.	No additional mitigation required. Traffic flows along the spine road following development of the Parc Cybi Business Park would not substantially increase above the level associated with the Wylfa Newydd Project.	Moderate adverse
Air Quality					
Human receptors within 350m of the Wylfa Newydd Development Area	Dust emissions - there would not be a significant air quality effect due to dust deposition at human receptors in the vicinity of the Wylfa Newydd Development Area	There is potential for a temporary cumulative effect during the construction phase of the visitor centre, AN01 Existing Power Station decommissioning, AN07 North Wales Connection Project, AN20 Utilities Diversion and AN25 Wylfa Newydd Potable Water Supply as these projects could have a temporal overlap which could also affect human	There is the potential for a cumulative effect due to the temporal and spatial overlap of all of these projects. There would be no permanent cumulative effect.	In line with the air quality management strategies set out in the Wylfa Newydd Code of Construction Practice (CoCP) (Application Reference Number: 8.6) and the Main Power Station Site sub-	Not significant

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		<p>receptors within 350m of the Wylfa Newydd Development Area.</p> <p>It is assumed that the visitor centre, AN01 Existing Power Station decommissioning, AN07 North Wales Connection Project, AN20 Utilities Diversion and AN25 Wylfa Newydd Potable Water Supply works would be undertaken in accordance with their own suite of good practice dust control and mitigation measures. The scale of these works are considerably smaller and the durations are shorter than the WNDA Development construction works. These are also located at different locations within the Wylfa Newydd Development Area and would not all affect the same human receptors, which would reduce the potential for a cumulative effect. Part of the dust mitigation for the WNDA Development would include liaison and coordination of mitigation with these other projects.</p>		<p>CoCP (Application Reference Number: 8.7), the contractor would hold regular liaison meetings with other high-risk construction sites or activities within 500m of the Wylfa Newydd Development Area. This would ensure that the air quality management strategies are co-ordinated.</p>	
Noise and vibration					
Outlying property south of the Wylfa Newydd Development Area (linked to development)	<p>Minor adverse effect at 1 property due to increased noise levels from the effects of traffic on the A5025 with offline improvements completed and operational.</p> <p>Moderate adverse effect due to the construction of WNDA Development</p>	There is potential for noise effects due to construction of AN20 Utilities Diversions	Potential for a more significant effect or new significant effects at receptor group due to AN20 Utilities Diversion interacting with project wide traffic.	None identified as effect from AN20 Utilities Diversion cannot be quantified at this stage.	Potential for moderate or major significant effects
Receptors Out lying North of Valley	Moderate Adverse effect - Project wide traffic. Increased noise levels from the effects of traffic on the A5025 with offline improvements completed and operational.	No significant noise and vibration effects during construction or operation of A5025 Online. Construction noise levels >65 dB LAeq for 2-3 days.	Potential for major significant effect at receptor group due to A5025 Online interacting with project wide traffic.	None identified as any effects are considered short term and effects at individual receptors cannot be reasonably quantified at this stage.	Potential for major adverse effect
Receptors Holyhead	Minor Adverse effect - Project wide traffic. Increased noise levels from	Potential for noise effects during construction of AN04 Penrhos Coastal Park (committed	Potential for a more significant effect or new significant effects at	None identified as the Wylfa Newydd project is not	Potential for moderate adverse effect

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	the effects of traffic on the A5025 with offline improvements completed and operational.	development). Negligible to minor significant effects expected.	receptor group due to AN04 construction interacting with project wide traffic.	considered the dominant development.	
Receptors closest or adjacent to the ecological compensation site Cae Canol-dydd.	Minor adverse effects – construction activities associated with the creation of the ecological compensation sites.	Potential for noise effects during construction of AN07 North Wales Connection Project. Both current options are proposed to cross the northern part of Cae Canol-dydd.	Potential for a more significant effect or new significant effects at receptors near Cae Canol-dydd due to simultaneous construction of the projects.	None identified	Minor adverse or higher.
Conventional waste and materials					
Composting facilities	Minor adverse effect on composting facilities within north Wales during construction.	There is the potential that the external projects could have an adverse impact on the capacity of composting facilities within north Wales. All the shortlisted projects have the potential to affect the capacities of the receiving composting facilities in north Wales. It is anticipated that the shortlisted projects will all generate organic waste during any enabling works, construction and operation that would require treatment and/or disposal at third party waste management facilities. The waste and materials arisings anticipated to be generated by these shortlisted projects or the timescales over which waste and materials would be generated are not known at this time. Thus, it has not been possible to assess the inter-project effects due to the lack of waste and materials arisings information. In 2016 there were 122,997 tonnes per annum of composting capacity in north Wales. Due to the limited composting capacity in north Wales, it is recognised that the inter-project effects are likely to increase. Good practice would seek to reuse material on the development sites where possible to minimise waste arisings.	Adverse impact on the capacity of composting facilities within north Wales.	No additional mitigation is proposed due to the lack of commercially confidential information and limited opportunity for collaboration.	Minor adverse or higher
Recycling facilities	Minor adverse effect on recycling facilities within north Wales during construction and the decommissioning of Site Campus, Park and Ride and Logistics Centre.	There is the potential that the external projects could have an adverse impact on the capacity of recycling facilities in north Wales. All the shortlisted projects have the potential to affect the capacities of the receiving recycling facilities in north Wales. It is anticipated that the shortlisted projects will all generate waste during any enabling works,	Adverse impact on the capacity of recycling facilities within north Wales.	No additional mitigation is proposed due to the lack of commercially confidential information and limited opportunity for collaboration.	Minor adverse or higher

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		construction and operation that would require treatment and/or disposal at third party waste management facilities. The waste and materials arisings anticipated to be generated by these shortlisted projects or the timescales over which waste and materials would be generated are not known at this time. Thus, it has not been possible to assess the inter-project effects due to the lack of waste and materials arisings information. In 2016 there were 375,299 tonnes per annum of recycling capacity in north Wales indicating that there is a large capacity for possible use. However, it is recognised that the inter-project effects are likely to increase, but good practice would seek to reuse material on the development sites where possible to minimise waste arisings.				
Land and/or sites	reclamation construction	Minor adverse effect on land reclamation and/or construction sites within north Wales during the decommissioning of Site Campus, Park and Ride and Logistics Centre	There is the potential that the external projects could have an adverse impact on the capacity of land reclamation and/or construction sites in north Wales. All the shortlisted projects have the potential to affect the capacities of the receiving land reclamation and/or construction sites in north Wales. It is anticipated that the shortlisted projects will all generate waste during any enabling works, construction and operation that would require treatment and/or disposal at third party waste management facilities. The waste and materials arisings anticipated to be generated by these shortlisted projects or the timescales over which waste and materials would be generated are not known at this time. Thus, it has not been possible to assess the inter-project effects due to the lack of waste and materials arisings information. In 2016 there were 1,541,491 tonnes per annum of capacity at land reclamation and/or construction sites in north Wales indicating that there is a large capacity for possible use. However, it is recognised that the inter-project effects are likely to increase, but good practice would seek to reuse material on the development sites where possible to minimise waste arisings.	Adverse impact on the capacity of land reclamation and/or construction sites within north Wales.	No additional mitigation is proposed due to the lack of commercially confidential information and limited opportunity for collaboration.	Minor adverse or higher
Non-hazardous waste disposal facilities	Minor adverse effect on non-hazardous waste disposal	There is the potential that the external projects could have an adverse impact on the capacity of non-	Adverse impact on the capacity of non-hazardous	No additional mitigation is proposed due to the lack of	Minor adverse or higher	

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	facilities within northwest England	hazardous waste disposal facilities in northwest England. All the shortlisted projects have the potential to affect the capacities of the receiving non-hazardous waste disposal facilities in north Wales. It is anticipated that the shortlisted projects will all generate waste during any enabling works, construction and operation that would require treatment and/or disposal at third party waste management facilities. The non-hazardous waste and materials arisings anticipated to be generated by these shortlisted projects or the timescales over which waste and materials would be generated are not known at this time. Thus, it has not been possible to assess the inter-project effects due to the lack of waste and materials arisings information. In 2016 there were 39,716,000m ³ of non-hazardous landfill capacity in northwest England indicating that there is a large capacity for possible use. However, it is recognised that the inter-project effects are likely to increase, but good practice would seek to reuse material on the development sites where possible to minimise waste arisings.	waste disposal facilities within northwest England.	commercially confidential information and limited opportunity for collaboration.	
Hazardous waste disposal facilities	Minor adverse effect on hazardous waste disposal sites within northwest England.	There is the potential that the external projects could have an adverse impact on the capacity of hazardous waste disposal facilities in northwest England. All the shortlisted projects have the potential to affect the capacities of the receiving hazardous waste disposal facilities in northwest England region. It is assumed that hazardous waste will be handled in northwest England as there are no suitable hazardous waste sites in north Wales. It is anticipated that the shortlisted projects will all generate waste during any enabling works, construction and operation that would require treatment and/or disposal at third party waste management facilities. The hazardous waste and materials arisings anticipated to be generated by these shortlisted projects or the timescales over which waste and materials would be generated are not known at this time. Thus, it has not been possible to assess the inter-project effects due to the lack of waste and materials arisings information. In 2015 there were 4,682,000m ³ of hazardous landfill capacity in northwest England indicating that there is	Adverse impact on the capacity of hazardous waste disposal facilities within northwest England.	No additional mitigation is proposed due to the lack of commercially confidential information and limited opportunity for collaboration.	Minor adverse or higher

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		a large capacity for possible use. However, it is recognised that the inter-project effects are likely to increase.			
Soils and Geology					
Agricultural Land Classification (ALC) Grades 2, 3a, 3b, 4 and 5 soils	Minor adverse effects on soil quality due to construction of the Wylfa Newydd Project.	<p>Potential minor adverse effects on soil quality due to soil handling or mixing with made ground/contaminated material associated with the construction of the following projects:</p> <ul style="list-style-type: none"> • A5025 On-line Highway Improvements; • Visitor centre; • AN04 Penrhos Coastal Park; • AN06 Parc Cybi Stage 2; • AN07 North Wales Connection Project; • AN08 Rhyd-y-Groes Re-power (committed development); • AN09 Menai Science Park (committed development); • AN14 Llanfaethlu Primary School (committed development); • AN15 Llangefni Link Road (committed development); • AN20 Utilities Diversions; • AN23 Llanbadrig Solar Farm; • AN24 Coleg Menai; and • AN25 Wylfa Newydd Potable Water Supply. 	Cumulative effect of increase in adverse impact on soil quality across Anglesey as a result of the construction of these projects.	None identified	Minor adverse
High, medium and low sensitivity controlled waters (within 250m of Wylfa Newydd Development Area)	Minor adverse effect due to disturbance and mobilisation of unexpected contamination at the Wylfa Newydd Development Area.	<p>Potential minor adverse effects due to disturbance and mobilisation of unexpected contamination to controlled waters during the following projects:</p> <ul style="list-style-type: none"> • AN01 Existing Power Station decommissioning; • AN07 North Wales Connection Project; • AN20 Utilities Diversions; and • AN25 Wylfa Newydd Potable Water Supply. 	Cumulative effect of increased disturbance and mobilisation of contamination to controlled waters as a result of the construction of these projects.	None identified	Minor adverse
Sites of geological importance within GeoMôn Geopark	Moderate and minor adverse effects on Porth Wnal Dolerite RIGS at the Wylfa Newydd Development Area.	Potential minor adverse effects due to the loss of access to or damage of sites of geological importance comprising the GeoMôn Geopark during the construction and operation of the following projects:	Cumulative effect due to increased loss of access or damage to sites of geological importance. It is currently uncertain	None identified	Moderate adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
		<ul style="list-style-type: none"> AN04 Penrhos Coastal Park; and AN05 Holyhead Waterfront Redevelopment. 	whether these RFFPs would affect sites of geological importance, but potential effects have been identified based on their proximity to the Penrhos Drumlin and Holyhead Breakwater Park RIGS. If these RFFPs were to affect these RIGS, the cumulative effect would be greater than the moderate adverse effect identified on the Porth Wnal Dolerite RIGS taken in isolation.		
Category 1 Aggregates Safeguarding Areas	Minor adverse effect due to sterilisation of sand and gravel resources at the Logistics Centre.	<p>Potential minor adverse effects due to the loss of access to or sterilisation of mineral resources within Category 1 and Category 2 Aggregates Safeguarding Areas during the construction and operation of the following projects:</p> <ul style="list-style-type: none"> AN04 Penrhos Coastal Park; AN05 Holyhead Waterfront Redevelopment. 	Cumulative effects increased amount of loss of access or sterilisation of mineral resources across Anglesey.	None identified	Minor adverse
Category 2 Aggregates Safeguarding Areas	Minor adverse effect on mineral resources at the Wylfa Newydd Development Area and A5025 Off-line Highway Improvements.	<ul style="list-style-type: none"> AN06 Parc Cybi Stage 2; AN07 North Wales Connection Project; AN08 Rhyd-y-Groes Re-power; AN09 Menai Science Park; AN14 Llanfaethlu Primary School; AN15 Llangefni Link Road; and AN24 Coleg Menai. 		None identified	
Surface Water and Groundwater					
Tre'r Gof Catchment and water within the Tre'r Gof SSSI including the Tre'r Gof SSSI drains	Moderate adverse effect on surface water and groundwater quality associated with construction and operation of landscape mounds and drainage systems.	<p>The following projects are located within the Wylfa Newydd Development Area and are considered to have minor effects on the Tre'r Gof Catchment and the SSSI if their zones of influence overlap with the Tre'r Gof Catchment and the SSSI:</p> <ul style="list-style-type: none"> AN01 Existing Power Station decommissioning; and AN25 Wylfa Newydd Potable Water Supply (construction, operation and decommissioning). 	AN01 and AN25 are expected to result in minor effects on surface water and groundwater quality, therefore cumulative effects related to these projects could be expected. However, given the proposed mitigation for AN01 and likely mitigation for AN25, the cumulative	No additional mitigation has been identified for the inter-project cumulative effects in relation to the Tre'r Gof receptor. The significance of the potential effects is a reflection of the uncertainty due to the hydrological complexity of the SSSI and the degree of effectiveness of the proposed mitigation.	Moderate adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
		The Wylfa Site Environmental Management Plan (Magnox Ltd, 2015) describes mitigation strategies that would be sufficient to ensure that significant effects associated with surface water quality and groundwater quality and flows do not arise as a result of AN01.	effects are unlikely to be significantly greater than those brought about by the landscaping mounds and associated drainage for the Wylfa Newydd Project which would have the dominant effect on the receptor.		
Nant Caerdegog Isaf	Minor adverse effect on fluvial geomorphology associated with construction and operation of landscape mounds and drainage systems.	The following project is located close to the Nant Caerdegog Isaf and so has the potential to adversely affect the watercourse if its zone of influence overlaps with the Nant Caerdegog Isaf: <ul style="list-style-type: none"> Visitor centre (construction, operation and decommissioning). The proposed Horizon visitor centre is located near to Nant Caerdegog Isaf. The specific scope is not currently known but any in-channel works or works on the channel banks to construct any outfall from the visitor centre could affect the fluvial geomorphology of the Nant Caerdegog Isaf, which could result in a minor adverse effect during construction. The presence of any structures in the channel throughout operation could alter channel morphology over the long-term. The removal of any structure that has been <i>in situ</i> for a long period of time could lead to the local destabilisation of the channel, with potential for erosion and deposition in response, during decommissioning. With expected embedded mitigation and good practice, the effects on fluvial geomorphology during construction, operation and decommissioning are conservatively assessed as minor adverse, although they could be negligible.	The visitor centre is predicted to result in minor adverse effects on fluvial geomorphology so cumulative effects with the Wylfa Newydd Project are possible, although they are not thought to be significant due to the small scale of works anticipated with the Vistor and Media Reception Centre.	None identified	Minor adverse
Groundwater in Secondary aquifers within and around the Wylfa Newydd Development Area	Minor adverse due to potential effects on groundwater quality, saline intrusion, changes in groundwater levels (principally due to dewatering during construction and use of a passive groundwater	The following projects are located within the Wylfa Newydd Development Area and so have potential to adversely affect groundwater in the Secondary aquifers if their zones of influence overlap with the Wylfa Newydd Development Area: <ul style="list-style-type: none"> AN01 Existing Power Station decommissioning; and 	Minor adverse or negligible effects on groundwater quality from leaks and spills of fuel and oil and use of cementitious materials. Minor adverse effects to groundwater levels and flow due to potential	None identified	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
	drainage system during operation) and changes in groundwater recharge.	<ul style="list-style-type: none"> AN25 Wylfa Newydd Potable Water Supply (construction and operation). <p>The Wylfa Site Environmental Management Plan (Magnox Ltd, 2015) has identified potential significant effects to groundwater pre-mitigation. However, the document also describes mitigation strategies that would be sufficient to ensure that significant effects associated with groundwater levels, flows and quality do not arise as a result of AN01.</p> <p>The precise location and scope of AN25 works are not currently known although would take place within and immediately outside the Wylfa Newydd Development Area. Any potential indirect effects on groundwater within the Wylfa Newydd Development Area likely to arise during construction relate to land excavations, which could result in a small magnitude and short duration of change on groundwater availability, levels and flow (for example, if local groundwater dewatering was required for laying the pipe). The groundwater quality could also be affected due to leaks and spills of fuels or oils from construction plant. Given the nature of the project, it is expected that embedded and good practice mitigation would be sufficient to ensure an overall small magnitude of change, with a resulting negligible effect. For operation, once the pipe is installed, there is potential that the pipeline route could form a preferential flowpath for groundwater movement which could locally alter groundwater flow direction. The magnitude of change for operation due to the pipeline is considered to be small with a minor adverse effect.</p>	dewatering activities, presence of below ground structures and presence of hardstanding.		
Existing Power Station ancillary buildings and services	Potential moderate adverse intra-project cumulative effect if vibration and dewatering both affect ancillary building stability/structure at the same time, but the combined adverse effect is unlikely to be greater than moderate.	<ul style="list-style-type: none"> AN01 Existing Power Station decommissioning. <p>The decommissioning of the Existing Power Station could have a negligible or minor effect on buildings and services at the Existing Power Station depending upon the timing, nature and extent of decommissioning operations.</p>	Possible adverse cumulative effect on stability or integrity of buildings and services not scheduled for decommissioning at the Existing Power Station.	None over and above that already identified for the effects of the Wylfa Newydd Project	Moderate adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
Terrestrial and freshwater ecology					
Red squirrel	Minor adverse effects due to habitat loss/fragmentation and disturbance during construction of the Power Station.	<p>The following projects are located within the Wylfa Newydd Development Area and so have potential to adversely affect this receptor:</p> <ul style="list-style-type: none"> • AN01 Existing Power Station decommissioning; • AN07 North Wales Connection Project (construction and decommissioning); and • AN20 Utilities Diversions (construction). <p>AN01 is not anticipated to directly affect red squirrel habitat although demolition works would be located immediately adjacent to woodland supporting this species. Owing to the legal protection afforded to red squirrel, AN01 works would need to avoid disturbing red squirrel within their dreys. It is expected that good practice mitigation in the form of pre-demolition surveys would be undertaken to identify the presence of active dreys. If these were present, potentially disturbing activities would need to be re-programmed until the dreys were no longer in use. However, there is the potential for a small magnitude of change arising from disturbance, and a minor adverse effect resulting.</p> <p>The precise locations and scope of AN20 works are not currently known. However, it is considered that there is a low risk of this project removing woodland as existing utilities (excluding high voltage overhead cables) are unlikely to be located within such habitats. The works are also considered likely to be localised and would generate only low levels of disturbance.</p> <p>In summary, cumulative effects of noise disturbance with AN01 and habitat loss/fragmentation with AN07 are possible. The application of good practice mitigation would reduce the effects to minor adverse, temporary and reversible.</p>	Cumulative effects of noise disturbance with AN01 and habitat loss/fragmentation with AN07 are possible. The application of good practice mitigation would reduce the effects to minor adverse, temporary and reversible.	None identified	Minor adverse
Landscape and visual					
Isle of Anglesey Area of Outstanding Natural Beauty (AONB)	Construction: Minor adverse effect on the overall AONB, arising from simultaneous effects of the Power Station, Off-Site	<p>The Isle of Anglesey AONB would potentially experience changes to its special qualities resulting from:</p> <ul style="list-style-type: none"> • AN01 Existing Power Station decommissioning. 	Cumulative effects would largely result from the construction and operation of the Power Station in combination with the	None required	Construction: Minor adverse effect on the overall AONB.

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
	<p>Power Station Facilities, A5025 Off-line Highway Improvements and Logistics Centre.</p> <p>Operation:</p> <p>Minor adverse effect on the overall AONB, arising from simultaneous effects of the Power Station and Logistics Centre.</p>	<p>In addition to the construction, operation and any decommissioning of:</p> <ul style="list-style-type: none"> • A5025 On-line Highway Improvements; • AN02 Anglesey Eco Park; • AN04 Penrhos Coastal Park (minor adverse); • AN06 Parc Cybi Stage 2; • AN07 North Wales Connection Project; • AN08 Rhyd-y-Groes Re-power (major adverse (within zone of influence); • AN10 Amlwch Natural Gas (moderate adverse); • AN014 Llanfaethlu Primary School (constructed); and • AN23 Llanbadrig Solar Farm (not significant). <p>The effects on special qualities of the Isle of Anglesey AONB (principally relating to the expansive views and coastal landscapes) would be of short to long duration.</p>	<p>RFFPs identified in the preceding column.</p> <p>The cumulative effects would be long-term, and likely to be greatest during construction of the Power Station. Furthermore, the effects would tend to be localised in the vicinity of the Power Station and the majority of the AONB would be unaffected.</p>		<p>Operation:</p> <p>Minor adverse effect on the overall AONB.</p>
Non-designated wider landscape	<p>Construction:</p> <p>Minor adverse effect on the overall non-designated wider landscape, arising from simultaneous effects of the Power Station, Off-Site Power Station Facilities, Park and Ride and Off-line Highway Improvements.</p> <p>Operation:</p> <p>Minor adverse effect on the overall non-designated wider landscape, arising from the simultaneous effects of the Power Station and Off-line Highway Improvements.</p>	<p>The non-designated wider landscape would potentially experience change to its defining features and key characteristics resulting from:</p> <ul style="list-style-type: none"> • AN01 Existing Power Station decommissioning. <p>In addition to the construction, operation and any decommissioning of:</p> <ul style="list-style-type: none"> • A5025 On-line Highway Improvements; • AN07 North Wales Connection Project; • AN08 Rhyd-y-Groes Re-power. Moderate adverse; • AN09 Menai Science Park; • AN10 Amlwch Natural Gas; • AN014 Llanfaethlu Primary School (constructed); • AN15 Llangefni Link Road Scheme (not significant); • AN23 Llanbadrig Solar Farm; • AN25 the Wylfa Newydd Potable Water Supply; and • AN30 Holyhead Port Expansion. <p>The effects on the defining features and key characteristics of the non-designated wider landscape would be of short to medium duration.</p>	<p>Cumulative effects would largely result from the construction and operation of the Power Station in combination with the RFFPs identified in the preceding column.</p> <p>The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of the Power Station.</p>	<p>None identified</p>	<p>Construction:</p> <p>Minor adverse effect on the non-designated wider landscape.</p> <p>Operation:</p> <p>Minor adverse effect on the non-designated wider landscape.</p>

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
Local Landscape Character	<p>Construction: Major adverse effect, arising from simultaneous effects of the Power Station with the A5025 Off-line Highway Improvements and Off-Site Power Station Facilities with the A5025 Off-line Highway Improvements.</p> <p>Operation: Moderate adverse effect, arising from simultaneous effects of the Power Station with the A5025 Off-line Highway Improvements.</p>	<p>Local Landscape Character would potentially experience changes to defining features and key characteristics as a result of:</p> <ul style="list-style-type: none"> AN01 Existing Power Station decommissioning. <p>In addition to the construction, operation and any decommissioning of:</p> <ul style="list-style-type: none"> A5025 On-line Highway Improvements; AN02 Anglesey Eco Park; AN04 Penrhos Coastal Park (neutral); AN05 Holyhead Primary School; AN06 Parc Cybi Stage 2; AN07 North Wales Connection Project; AN08 Rhyd-y-Groes Re-power; AN09 Menai Science Park; AN10 Amlwch Natural Gas (moderate/low adverse); AN014 Llanfaethlu Primary School (constructed); AN15 Llangefni Link Road Scheme; AN23 Llanbadrig Solar Farm; and The construction and decommissioning of AN25 Wylfa Newydd Potable Water Supply. <p>The effects on the defining features and key characteristics of the Local Landscape Character would be of short to medium duration.</p>	<p>Cumulative effects would largely result from the construction and operation of the Wylfa Newydd Project in combination with the RFFPs identified in the preceding column.</p> <p>The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phases of the individual developments which form part of the Wylfa Newydd Development, reducing as landscape mitigation measures establish.</p>	<p>Detailed alignment of the North Wales Connection Project to be designed in conjunction with the emerging landscape design for the Wylfa Newydd Development Area.</p>	<p>Construction: Major adverse</p> <p>Operation: Moderate adverse</p>
North Anglesey Heritage Coast	<p>Construction: Moderate adverse overall effect on the North Anglesey Heritage Coast, arising from the effects of the Power Station.</p> <p>Operation: Moderate adverse effect overall on the North Anglesey Heritage Coast, arising from the effects of the Power Station.</p>	<p>The North Anglesey Heritage Coast would potentially experience change to its defining features and key characteristics resulting from:</p> <ul style="list-style-type: none"> AN01 Existing Power Station decommissioning; AN08 Rhyd-y-Groes Re-power (moderate/minor adverse); and AN10 Amlwch Natural Gas - construction, operation and decommissioning. <p>The effects on the defining features and key characteristics of the Heritage Coast would be of short to medium duration.</p>	<p>Cumulative effects would largely result from the Power Station in combination with AN10.</p> <p>The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of the Power Station.</p>	<p>Detailed alignment of the North Wales Connection Project to be designed in conjunction with the emerging landscape design for the Wylfa Newydd Development Area.</p>	<p>Construction: Moderate adverse.</p> <p>Operation: Moderate adverse</p>
Mynydd Mechell Proposed SLA	Construction: Minor adverse effect associated with construction	The Mynydd Mechell Proposed SLA would potentially experience changes to its defining	Cumulative effects would largely result from construction of the Power	None required	Construction: Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
	of the Power Station. Minor effect during operation.	features as a result of the construction, operation and any decommissioning of: <ul style="list-style-type: none">• AN07 North Wales Connection Project;• AN08 Rhyd-y-Groes Re-power;• AN23 Llanbadrig Solar Farm; and• The construction of AN25 Wylfa Newydd Potable Water Supply. Effects on the defining features of the proposed SLA would be of short to medium duration.	Station in combination with construction, operation and any decommissioning of AN07, AN08, AN23 and AN25. The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of the Power Station.		Operation: Minor adverse
Local Character Seascapes	Construction: Moderate to major adverse effect during construction in the vicinity of the Power Station leading to the erosion of seascapes character. Operation: Minor to major adverse effect during operation as a result of the ongoing influence of the Power Station on the prevailing seascapes character primarily related to the MOLF.	Local Seascapes Character areas would potentially experience change in their defining features and key characteristics resulting from: <ul style="list-style-type: none">• AN01 Existing Power Station decommissioning. In addition to the construction, operation and any decommissioning of: <ul style="list-style-type: none">• AN08 Rhyd-y-Groes Re-power (moderate adverse);• AN10 Amlwch Natural Gas. For Local Seascapes Character areas, the effects on their defining features and key characteristics would be of short to medium duration.	Cumulative effects would largely result from the Power Station in combination with AN10. The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of the Power Station.	Detailed alignment of the North Wales Connection Project to be designed in conjunction with the emerging landscape design for the Wylfa Newydd Development Area.	Construction: Major adverse Operation: Major adverse
Wales Coast (WCP) walkers	Construction: Major adverse, arising from the simultaneous or sequential effects of the Power Station and A5025 Off-line Highway Improvements. Operation: Major adverse, arising from the simultaneous effects of the Power Station and	Users of the WCP would potentially experience changes in visual amenity resulting from visibility of: <ul style="list-style-type: none">• AN01 Existing Power Station decommissioning. In addition to the construction, operation and any decommissioning of: <ul style="list-style-type: none">• A5025 On-line Highway Improvements;• AN04 Penrhos Coastal Park (moderate (construction and operation));• AN05 Holyhead Waterfront Redevelopment (significant);• AN07 North Wales Connection Project;	Users of the WCP would potentially experience intermittent simultaneous or sequential views of construction and operation of the Wylfa Newydd Project in combination with the RFFPs identified in the preceding column. The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of the	None identified	Construction: Major adverse Operation: Major adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
	A5025 Off-line Highway Improvements.	<ul style="list-style-type: none"> AN08 Rhed-y-Groes Re-power (major/moderate adverse); AN10 Amlwch Natural Gas (moderate adverse); AN23 Llanbadrig Solar Farm; and The construction and decommissioning of AN25 the Wylfa Newydd Potable Water Supply. <p>For users of the WCP, the effects on visual amenity would be likely to be experienced intermittently and for relatively short duration as they travel the WCP.</p>	Power Station, the residual effect reducing as mitigation establishes planting (where relevant).		
Users of Local PRoWs and open access land	<p>Construction:</p> <p>Major adverse, arising from simultaneous effects of the Power Station, Off-Site Power Station Facilities, A5025 Off-line Highway Improvements and Logistics Centre.</p> <p>Operation:</p> <p>Major adverse, arising from simultaneous effects of the Power Station, Off-Site Power Station Facilities and A5025 Off-line Highway Improvements.</p>	<p>Users of Local PRoWs and open access land would potentially experience changes in visual amenity resulting from visibility of:</p> <ul style="list-style-type: none"> AN01 Existing Power Station decommissioning (adverse). <p>In addition to the construction, operation and any decommissioning of:</p> <ul style="list-style-type: none"> A5025 On-line Highway Improvements; AN02 Anglesey Eco Park; AN04 Penrhos Coastal Park (neutral); AN05 Holyhead Waterfront Redevelopment; AN06 Parc Cybi Stage 2; AN07 North Wales Connection Project; AN08 Rhed-y-Groes Re-power (moderate adverse); The operation of AN014 Llanfaethlu Primary School; AN23 Llanbadrig Solar Farm (moderate adverse (construction and operation)); and The construction of AN25 the Wylfa Newydd Potable Water Supply. 	<p>Cumulative effects would arise from construction and operation of the Wylfa Newydd Project in combination with views of AN01, AN07, AN08 AN14, and AN023. During construction, users of PRoWs and open access land would potentially experience sequential, simultaneous views of the Logistics Centre in combination with AN02, AN04 and AN06.</p> <p>The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of the Power Station, the residual effect reducing as mitigation establishes planting (where relevant).</p>	None identified	<p>Construction: Major adverse</p> <p>Operation: Major adverse</p>
Copper Trail/NCN Route 566 users	<p>Construction:</p> <p>Moderate adverse arising from effects of the Power Station.</p> <p>Operation:</p>	<p>Users of the Copper Trail/NCN Route 566 would potentially experience changes in visual amenity resulting from visibility of the construction, operation and any decommissioning of:</p> <ul style="list-style-type: none"> A5025 On-line Highway Improvements; AN07 North Wales Connection Project; 	<p>Cumulative effects would arise from construction and operation of the Power Station in combination with AN07, AN08, AN23 and AN25.</p>	None identified	<p>Construction: Moderate adverse</p> <p>Operation: Moderate adverse</p>

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
	Moderate, arising from effects of the Power Station.	<ul style="list-style-type: none"> AN08 Rhyd-y-Groes Re-power (major/moderate adverse); AN23 Llanbadrig Solar Farm; and The construction and decommissioning of AN25 Wylfa Newydd Potable Water Supply. <p>For users of the Copper Trail/NCN Route 566, the effects on visual amenity would be likely to be experienced intermittently and for short duration as they travel the route.</p>	The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of the Power Station, the residual effect reducing as mitigation planting establishes.		
A5025 users	<p>Construction:</p> <p>Major adverse, arising from simultaneous effects of the Power Station with the A5025 Off-line Highway Improvements and Off-Site Power Station Facilities with the A5025 Off-line Highway Improvements.</p> <p>Operation:</p> <p>Moderate adverse, arising from simultaneous effects of the Power Station with the A5025 Off-line Highway Improvements.</p>	<p>Users of the A5025 would potentially experience changes in visual amenity resulting from visibility of the construction, operation and any decommissioning of:</p> <ul style="list-style-type: none"> A5025 On-line Highway Improvements; AN07 North Wales Connection Project; AN08 Rhyd-y-Groes Re-power (major/moderate adverse); AN23 Llanbadrig Solar Farm; and The construction and decommissioning of AN25 Wylfa Newydd Potable Water Supply. <p>For users of the A5025, the effects on visual amenity would be likely to be experienced intermittently and be of short duration travelling the route.</p>	<p>Cumulative effects would arise from construction and operation of the Wylfa Newydd Project in combination with AN07, AN08, AN23 and AN25.</p> <p>The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of the Power Station, the residual effect reducing as mitigation planting establishes (where relevant).</p>	None identified	<p>Construction: Major adverse</p> <p>Operation: Major adverse</p>
Local road network users	<p>Construction:</p> <p>Major adverse, arising from simultaneous effects of the Power Station with the A5025 Off-line Highway Improvements and Off-Site Power Station Facilities with the A5025 Off-line Highway Improvements.</p> <p>Operation:</p> <p>Moderate adverse, arising from simultaneous effects of the Power Station with the</p>	<p>Users of the local road network in the vicinity of the developments associated with the Wylfa Newydd Project would potentially experience changes in visual amenity resulting from visibility of:</p> <ul style="list-style-type: none"> AN01 Existing Power Station decommissioning. <p>In addition to the construction, operation and any decommissioning of:</p> <ul style="list-style-type: none"> A5025 On-line Highway Improvements; AN02 Anglesey Eco Park; AN04 Penrhos Coastal Park; AN05 Holyhead Waterfront Redevelopment; AN06 Parc Cybi Stage 2; AN07 North Wales Connection Project; 	<p>Cumulative effects would arise from construction and operation of the Wylfa Newydd Project in combination with views of AN01, AN07, AN08 AN14, and AN023. Furthermore, users of the local road network would potentially experience sequential, simultaneous and/or consecutive visibility of the Logistics Centre in combination with AN02, AN04 and AN06.</p>	None identified	<p>Construction: Major adverse</p> <p>Operation: Moderate adverse</p>

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
	A5025 Off-line Highway Improvements.	<ul style="list-style-type: none"> AN08 Rhyd-y-Groes Re-power (major/moderate adverse); AN014 Llanfaethlu Primary School (constructed); AN23 Llanbadrig Solar Farm (minor adverse (construction and operation)); and The construction and decommissioning of AN25, the Wylfa Newydd Potable Water Supply. 	The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of the Power Station, the residual effect reducing as mitigation planting establishes (where relevant).		
Community of Cemaes	<p>Construction:</p> <p>Moderate to major adverse visual effect resulting from partial views of the construction works and cranes associated with the Power Station.</p> <p>Operation:</p> <p>Minor adverse effects arising from the Power Station.</p>	<p>The community of Cemaes would potentially experience changes to their visual amenity resulting from:</p> <ul style="list-style-type: none"> AN01 Existing Power Station decommissioning. <p>In addition to the construction, operation and any decommissioning of:</p> <ul style="list-style-type: none"> AN07 North Wales Connection Project; AN08 Rhyd-y-Groes Re-power (major/moderate adverse); and AN25 Wylfa Newydd Potable Water Supply. <p>For the community of Cemaes, the duration of effects on visual amenity would be likely to be medium to long-term.</p>	<p>Cumulative effects would arise from construction and operation of the Wylfa Newydd Project in combination with AN01, AN07, AN08 and AN25.</p> <p>The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of the Power Station, the residual effect reducing as mitigation planting establishes (where applied to each development).</p>	None identified	<p>Construction: Major adverse</p> <p>Operation: Moderate adverse</p>
Community of Tregele	<p>Construction:</p> <p>Major adverse, arising from simultaneous effects of the Power Station and A5025 Off-line Highway Improvements.</p> <p>Operation:</p> <p>Moderate adverse, arising from simultaneous effects of the Power Station and A5025 Off-line Highway Improvements.</p>	<p>The residents within the community of Tregele would potentially experience changes to their visual amenity resulting from:</p> <ul style="list-style-type: none"> AN01 Existing Power Station decommissioning. <p>In addition to the construction, operation and any decommissioning of:</p> <ul style="list-style-type: none"> A5025 On-line Highway Improvements; AN07 North Wales Connection Project; AN08 Rhyd-y-Groes Re-power; and The construction and decommissioning of AN25 Wylfa Newydd Potable Water Supply. <p>For residents, the duration of effects on visual amenity would be likely to be medium to long-term.</p>	<p>Cumulative effects would arise from construction and operation of the Wylfa Newydd Project in combination with AN07, and AN25.</p> <p>The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of the Power Station, the residual effect reducing as mitigation planting</p>	Detailed alignment of the North Wales Connection Project to be designed in conjunction with the emerging landscape design for the Wylfa Newydd Development Area.	<p>Construction: Major adverse</p> <p>Operation: Moderate</p>

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
			establishes (where applied to each development).		
Community Llanfechell	of Construction: Moderate adverse arising from effects of the Power Station. Operation: Moderate arising from effects of the Power Station.	The residents within the community of Llanfechell would potentially experience changes to their visual amenity resulting from the construction, operation and any decommissioning of: <ul style="list-style-type: none">• AN07 North Wales Connection Project; and• AN25 Wylfa Newydd Potable Water Supply. For residents, the duration of effects on visual amenity would be likely to be medium to long-term.	Cumulative effects would arise from construction and operation of the Power Station in combination with AN07, and AN25. The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of the Power Station, the residual effect reducing as mitigation planting establishes.	None identified	Construction: Moderate adverse Operation: Moderate adverse
Community Llanfairynghornwy	of Construction: Moderate adverse arising from effects of the Power Station. Operation: Minor arising from effects of the Power Station.	The residents within the community of Llanfairynghornwy would potentially experience changes to their visual amenity resulting from the construction, operation and any decommissioning of: <ul style="list-style-type: none">• AN07 North Wales Connection Project;• AN08 Rhed-y-Groes Re-power. Not significant; and• AN25 Wylfa Newydd Potable Water Supply. For residents, the duration of effects on visual amenity would be likely to be medium to long-term.	Cumulative effects would arise from construction and operation of the Power Station in combination with AN07, AN08 and AN25. The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of the Power Station, the residual effect reducing as mitigation planting establishes (where applied to each development).	None identified	Construction: Moderate adverse Operation: Minor
Community Llanfaethlu	of Construction: Moderate adverse, arising from simultaneous effects of the Off-Site Power Station Facilities and A5025 Off-line Highway Improvements. Operation:	The residents within the community of Llanfaethlu would potentially experience changes to their visual amenity resulting from the operation of AN14 Llanfaethlu Primary School (it is noted that the school has now been constructed) and the A5025 On-line Highway Improvements. For residents, the duration of effects on visual amenity would be likely to be medium to long-term.	Cumulative effects would arise from construction and operation of the Wylfa Newydd Project in combination with AN14. The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of the Power Station, the residual	None identified	Construction: Moderate adverse Operation: Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
	Slight beneficial, arising from the A5025 Off-line Highway Improvements.		effect reducing as mitigation planting establishes (where applied to each development).		
Visitors to William Thomas Monument at Mynydd y Garn	Construction: Moderate adverse arising from effects of the Power Station. Operation: Minor adverse arising from effects of the Power Station.	Visitors to the William Thomas Monument at Mynydd y Garn would potentially experience changes to their visual amenity resulting from: <ul style="list-style-type: none">AN01 Existing Power Station decommissioning.In addition to the construction, operation and any decommissioning of:<ul style="list-style-type: none">AN07 North Wales Connection Project;AN08 Rhyd-y-Groes Re-power. Minor adverse; andThe construction and decommissioning of AN25 Wylfa Newydd Potable Water Supply. For visitors to the monument, the duration of effects on visual amenity would be relative to the length of stay at the monument but would be likely to be experienced from the monument for the medium to long-term.	Cumulative effects would arise from construction and operation of the Power Station in combination with AN01, AN07, AN08 and AN25. The impacts on visual amenity would be likely to occur during the majority of the development lifecycles and during the construction, operation and decommissioning of the Wylfa Newydd Project. The resulting cumulative effects would be long-term to permanent, and likely to be of greatest impact during the construction phase of the Power Station, the residual effect reducing as mitigation planting establishes (where applied to each development).	None identified	Construction: Moderate adverse Operation: Minor adverse
Visitors to the standing stones north of Llanfechell	Construction: Major adverse arising from effects of the Power Station. Operation: Moderate adverse arising from effects of the Power Station.	Visitors to the standing stones north of Llanfechell would potentially experience changes to their visual amenity resulting from: <ul style="list-style-type: none">AN01 Existing Power Station decommissioning.In addition to the construction, operation and any decommissioning of:<ul style="list-style-type: none">A5025 On-line Highway Improvements;AN07 North Wales Connection Project; andAN08 Rhyd-y-Groes Re-power. For visitors to the monument, the duration of effects on visual amenity would be relative to the length of	Cumulative effects would arise from construction and operation of the Power Station in combination with AN01, AN07, AN08 and AN25. The resulting cumulative effects would be long-term to permanent, and likely to be of greatest impact during the construction phase of the Power	None identified	Construction: Major adverse Operation: Moderate adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
		stay at the monument but would be likely to be experienced from the monument for the medium to long-term.	Station, the residual effect reducing as mitigation planting establishes.		
Offshore viewers	Construction: Major adverse arising from effects of the Power Station. Operation: Major adverse arising from effects of the Power Station.	Offshore viewers would potentially experience changes to their visual amenity resulting from: <ul style="list-style-type: none">AN01 Existing Power Station decommissioning. In addition to the construction, operation and any decommissioning of: <ul style="list-style-type: none">AN10 Amlwch Natural Gas. For offshore viewers, the duration of effects on visual amenity would be relative to the nature and speed of their passage but would be likely to be experienced for the medium to long-term. Effects resulting from AN10 would principally result from the presence of structures within the coastal waters.	Cumulative effects would arise from construction and operation of the Power Station in combination with AN01 and AN10. The resulting cumulative effects would be long-term and likely to be of greatest impact during the construction phase of the Power Station, the residual effect reducing as mitigation planting establishes and the Magnox site restored.	None identified	Construction: Major adverse Operation: Moderate adverse
Visitors to Parys Mountain	Construction: Minor adverse arising from effects of the Power Station.	Visitors to Parys Mountain would potentially experience changes to their visual amenity resulting from: <ul style="list-style-type: none">AN01 Existing Power Station decommissioning. In addition to the construction, operation and any decommissioning of: <ul style="list-style-type: none">AN07 North Wales Connection Project;AN08 Rhyd-y-Groes Re-power;AN23 Llanbadrig Solar Farm; andAN25 Wylfa Newydd Potable Water Supply.	Cumulative effects would arise from construction of the Power Station in combination with AN01, AN07, AN08, AN23 and AN25. The resulting cumulative effects would be short-term, the residual effect reducing to negligible adverse following establishment of mitigation planting which would integrate the Power Station into the landscape.	None required	Construction: Minor adverse
National Cycle Network (NCN) Route 8	Construction: Minor adverse, arising from simultaneous effects of the Park and Ride and A5025 Off-line Highway Improvements.	Users of NCN Route 8 would potentially experience changes in visual amenity resulting from visibility of the construction, operation and any decommissioning of: <ul style="list-style-type: none">A5025 On-line Highway Improvements;AN04 Penrhos Coastal Park. For users of NCN Route 8, the effects on visual amenity would be likely to be experienced	Cumulative effects would arise from construction and operation of the Wylfa Newydd Project in combination with AN04. The resulting cumulative effects would be short-term, and likely to be of greatest impact during the	None required	Construction: Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
		intermittently and be of short duration along the route.	construction phase of the Park and Ride, the residual effect reducing as mitigation planting establishes (where relevant).		
A5 Holyhead Road	Construction: Moderate adverse, arising from simultaneous effects of the Park and Ride and A5025 Off-line Highway Improvements. Operation: Minor adverse, arising from simultaneous effects of the Park and Ride and A5025 Off-line Highway Improvements.	Users of the A5 would potentially experience changes in visual amenity resulting from visibility of the construction, operation and any decommissioning of: <ul style="list-style-type: none">• A5025 On-line Highway Improvements;• AN02 Anglesey Eco Park;• AN04 Penrhos Coastal Park; and• AN07 North Wales Connection Project. For users of the A5, the effects on visual amenity would be likely to be experienced intermittently and be of short duration as they travel the road.	Cumulative effects would arise from construction and operation of the Wylfa Newydd Project in combination with AN02, AN04 and AN07. The resulting cumulative effects would be short-term, and likely to be of greatest impact during the construction phases of the A5025 Off-line Highway Improvements and the Park and Ride, the residual effect reducing as mitigation planting establishes (where relevant).	None identified	Construction: Moderate adverse Operation: Minor adverse
NCN Route 5	Construction: Slight adverse, arising from effects of the A5025 Off-line Highway Improvements. Operation: Slight adverse, arising from the A5025 Off-line Highway Improvements.	Users of NCN Route 5 would potentially experience changes in visual amenity resulting from visibility of the construction, operation and any decommissioning of: <ul style="list-style-type: none">• A5025 On-line Highway Improvements;• AN02 Anglesey Eco Park; and• AN04 Penrhos Coastal Park. For users of NCN Route 5, the effects on visual amenity would be likely to be experienced intermittently.	Cumulative effects would arise from construction and operation of the A5025 Off-line Highway Improvements in combination with AN02 and AN04. The resulting cumulative effects would be short-term, the residual effect reducing as mitigation planting establishes.	None required	Construction: Minor adverse Operation: Minor adverse
Residential receptors within 1km of the A5025 Off-line Highway Improvements	Construction: Major adverse, arising from simultaneous effects of the Power Station, Off-Site Power Station Facilities and	Residential receptors within 1km of the A5025 Off-line Highway Improvements would potentially experience changes in visual amenity resulting from visibility of the operation and any decommissioning of AN14 Llanfaethlu Primary School and the A5025 On-line Highway Improvements.	Cumulative effects would arise from construction and operation of the A5025 Off-line Highway Improvements in combination with AN14.	None identified	Construction: Major adverse Operation: Minor to major

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
	A5025 Off-line Highway Improvements. Operation: Slight to large adverse, relating to the A5025 Off-line Highway Improvements.		The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of the Power Station, the residual effect reducing as mitigation planting establishes (where relevant).		adverse
Railway to Holyhead	Construction: Slight adverse, arising from the effects of the A5025 Off-line Highway Improvements	Users of the railway to Holyhead would potentially experience changes in visual amenity resulting from visibility of the construction, operation and any decommissioning of: • AN04, Penrhos Coastal Park.	Cumulative effects would arise from construction of the A5025 Off-line Highway Improvements in combination with AN04. The resulting cumulative effect would be short-term, the residual effect reducing to negligible adverse following establishment of the boundary hedge planting to the Logistics Centre and its decommissioning.	None required	Construction: Minor adverse
Cyclists on the shared cycleway/footway Parc Cybi access road	Construction: Major adverse, arising from the effects of the Logistics Centre. Operation: Minor adverse, arising from the residual effects of the Logistics Centre after it is decommissioned.	Cyclists on the shared cycleway/footway Parc Cybi access road would potentially experience changes in visual amenity resulting from visibility of the construction, operation and any decommissioning of: • AN04 Penrhos Coastal Park; and • AN06 Parc Cybi Stage 2. For cyclists, the duration of effects on visual amenity would be relative to the length of journey.	Cumulative effects would arise from the Logistics Centre during the construction and operation phase of the Wylfa Newydd Project in combination with AN04 and AN06. The resulting cumulative effects would be short-term, the residual effect reducing to minor adverse following establishment of the boundary hedge planting to the Logistics Centre and its decommissioning.	None identified	Construction: Major adverse Operation: Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
Cyclists on the Lon Trefignath cycle path	Construction: Major adverse, arising from the effects of the Logistics Centre. Operation: Minor adverse, arising from the effects of the Logistics Centre.	Cyclists on the Lon Trefignath cycle path would potentially experience changes in visual amenity resulting from visibility of the construction, operation and any decommissioning of: <ul style="list-style-type: none">AN04, the Penrhos Coastal Path; andAN06, the Parc Cybi Stage 2. For cyclists, the duration of effects on visual amenity would be relative to the length of journey.	Cumulative effects would arise from the Logistics Centre during the construction and operation phase of the Wylfa Newydd Project in combination with AN04 and AN06.	None identified	Construction: Major adverse Operation: Minor adverse
Community of Kingsland	Construction: Moderate adverse, arising from the effects of the Logistics Centre. Operation: Minor adverse, arising from the effects of the Logistics Centre.	The residents within the community of Kingsland would potentially experience changes in visual amenity resulting from visibility of the construction, operation and any decommissioning of: <ul style="list-style-type: none">AN04, the Penrhos Coastal Park. Moderate adverse (Construction and operation).	Cumulative effects would arise from the Logistics Centre during the construction and operation phase of the Wylfa Newydd Project in combination with AN04.	None identified	Construction: Moderate adverse Operation: Moderate adverse
Community of Penrhyn Geiriol and Hunters Chase, Trearddur	Construction: Moderate adverse, arising from the effects of the Logistics Centre. Operation: Minor adverse, arising from the effects of the Logistics Centre.	The residents within the community of Penrhyn Geiriol and Hunters Chase, Trearddur would potentially experience changes in visual amenity resulting from visibility of the construction, operation and any decommissioning of: <ul style="list-style-type: none">AN04, the Penrhos Coastal Park (negligible).	Cumulative effects would arise from the Logistics Centre during the construction and operation phase of the Wylfa Newydd Project in combination with AN04. The resulting cumulative effect would be short-term, the residual effect reducing following establishment of the boundary hedge planting to the Logistics Centre and its decommissioning.	None identified	Construction: Moderate adverse Operation: Minor adverse
Visitors to Trefignath Burial Chamber	Construction: Major adverse, arising from the effects of the Logistics Centre.	Visitors to the Visitors to Trefignath Burial Chamber would potentially experience changes in visual amenity resulting from visibility of the construction, operation and any decommissioning of:	Cumulative effects would arise from the Logistics Centre during the construction and operation phase of the Wylfa	None identified	Construction: Major adverse Operation:

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
	Operation: Minor adverse, arising from the effects of the Logistics Centre.	<ul style="list-style-type: none"> AN04, the Penrhos Coastal Park (minor adverse (Construction and operation)); and AN06, the Parc Cybi Stage 2. <p>For visitors to the burial chamber the duration of effects on visual amenity would be relative to the length of stay at the monument.</p>	Newydd Project in combination with AN04 and AN06.		Minor adverse
Visitors to the Ty Mawr Standing Stone	Construction: Major adverse, arising from the effects of the Logistics Centre. Operation: Minor adverse, arising from the effects of the Logistics Centre.	<p>Visitors to the Ty Mawr Standing Stone would potentially experience changes in visual amenity resulting from visibility of the construction, operation and any decommissioning of:</p> <ul style="list-style-type: none"> AN04, the Penrhos Coastal Path; and AN06, the Parc Cybi Stage 2. <p>For visitors to the Stone the duration of effects on visual amenity would be relative to the length of stay at the monument.</p>	Cumulative effects would arise from the Logistics Centre during the construction and operation phase of the Wylfa Newydd Project in combination with AN04 and AN06.	None identified	Construction: Major adverse Operation: Minor adverse
Visitors to Holyhead Mountain	Construction: Minor adverse, arising from the effects of the Logistics Centre.	<p>Visitors to Holyhead Mountain would potentially experience changes to visual amenity resulting from visibility of the construction, operation and any decommissioning of:</p> <ul style="list-style-type: none"> AN02 Anglesey Eco Park; AN04, the Penrhos Coastal Park; AN05 Holyhead Waterfront Redevelopment; AN06, the Parc Cybi Stage 2; and AN30 Holyhead Port Expansion <p>For visitors to Holyhead Mountain the duration of effects on visual amenity would be relative to the length of visit to Holyhead Mountain, particularly its summit.</p>	<p>Cumulative effects would arise from the Logistics Centre during the construction phase of the Wylfa Newydd Project in combination with AN02, AN04, AN05, AN06 and AN30. The impacts on visual amenity would be likely to occur during the construction of AN02, AN04, AN05, AN06 and AN30 and during the construction and operation of the Wylfa Newydd Project.</p> <p>The resulting cumulative effects would be short-term, the residual effect reducing to negligible adverse following establishment of the boundary hedge planting</p>	None identified	Construction: Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
			to the Logistics Centre and its decommissioning.		
A55	Construction: Minor adverse, arising from simultaneous effects of the A5025 Off-line Highway Improvements and Logistics Centre.	Users of the A55 would potentially experience changes in visual amenity resulting from visibility of the construction, operation and any decommissioning of: <ul style="list-style-type: none">AN02, the Anglesey Eco Park;AN04, the Penrhos Coastal Park (moderate adverse); andAN06, the Parc Cybi Stage 2. For users of the A55, the effects on visual amenity would be likely to be experienced intermittently and be of short duration when travelling the route.	Cumulative effects would arise from construction and operation of the Wylfa Newydd Project in combination with AN02, AN04 and AN06. The resulting cumulative effects would be short-term, the residual effect reducing to negligible adverse following establishment of the boundary hedge planting to the Logistics Centre and its decommissioning.	None identified	Construction: Moderate adverse
B4545	Construction: Moderate adverse, arising from the effects of the Logistics Centre. Operation: Minor adverse, arising from the effects of the Logistics Centre.	Users of the B4545 would potentially experience changes in visual amenity resulting from visibility of the construction, operation and any decommissioning of: <ul style="list-style-type: none">AN04, the Penrhos Coastal Park; andAN06, the Parc Cybi Stage 2. For users of the B4545, the effects on visual amenity would be likely to be experienced intermittently and be of short duration as they travel the road.	Cumulative effects would arise from the Logistics Centre during the construction and operation phase of the Wylfa Newydd Project in combination with AN04 and AN06.	None identified	Construction: Moderate adverse Operation: Minor adverse
A5153	Construction: Moderate adverse, arising from the effects of the Logistics Centre.	Users of the A5153 would potentially experience changes in visual amenity resulting from visibility of the construction, operation and any decommissioning of: <ul style="list-style-type: none">AN04, the Penrhos Coastal Park; andAN06, the Parc Cybi Stage 2. For users of the A5153, the effects on visual amenity would be likely to be experienced intermittently and be of short duration as they travel the road.	Cumulative effects would arise from the Logistics Centre during the construction phase of the Wylfa Newydd Project in combination with AN04 and AN06. The impacts on visual amenity would be likely to occur during the construction of AN04 and AN06 and during the construction and operation	None identified	Construction: Moderate adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
			of the Wylfa Newydd Project. The resulting cumulative effects would be short-term with the residual effect reducing to negligible adverse following establishment of the boundary hedge planting to the Logistics Centre and its decommissioning.		
Residents in the vicinity of the ecological compensation site at Cae Canol-dydd	Construction: Minor to Moderate adverse arising from effects of the Power Station (Cae Canol-dydd ecological compensation site).	Residents in the vicinity of ecological compensation site at Cae Canol-dydd would potentially experience changes to their visual amenity resulting from AN07 North Wales Connection Project. For residents in the vicinity of the ecological compensation site at Cae Canol-dydd the duration of effects would be likely to be short-term.	Cumulative effects would arise from construction and operation of the Wylfa Newydd Project in combination with AN07. The resulting cumulative effects would be short-term, and likely to be of greatest impact during the construction phase of the ecological compensation site. The effect would reduce to negligible in the longer term with the re-establishment of ground cover across the ecological compensation site.	None identified	Construction: Moderate adverse
Residents in the vicinity of the ecological compensation site at Ty du	Construction: Minor to Moderate adverse arising from effects of the Power Station (Ty du ecological compensation site).	Residents in the vicinity of Ty du ecological compensation site would potentially experience changes to their visual amenity resulting from: <ul style="list-style-type: none">AN01 Existing Power Station decommissioning. In addition to the construction, operation and any decommissioning of: <ul style="list-style-type: none">AN08 Rhyd-y-Groes Re-power. For residents in the vicinity of the ecological compensation site at Ty du, the duration of effects on visual amenity would be likely to be medium to long-term.	Cumulative effects would arise from construction and operation of the Wylfa Newydd Project in combination with AN01, and AN08. The resulting cumulative effects would be long-term, and likely to be of greatest impact during the construction phase of ecological compensation site. The effect would	None identified	Construction: Moderate adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
			reduce to negligible in the longer term with the re-establishment of ground cover across the ecological compensation site.		
Cultural heritage					
Cemaes Conservation Area (Asset 124)	Effects on the setting of the Conservation Area resulting from the visual and aural intrusion of activities associated with the construction of the Power Station. The residual significance of this effect has been assessed to be minor adverse.	Effects are predicted on the setting of this receptor resulting from the presence of construction infrastructure, increased light and noise pollution associated with the construction of AN08 Rhyd-y-Groes Re-power. The effect has been assessed in the environmental statement (ES) for AN08 to be minor/negligible adverse.	Intrusion on the setting of this asset by the Wylfa Newydd Project and AN08 would combine resulting in an inter-project effect. No cumulative effects during operation and decommissioning have been identified. No permanent cumulative effect. While both developments are predicted to affect the setting of this receptor, given the distance between the developments this intrusion would not be dominant and would be seen in the context of the existing developments. In consideration of this, the inter-project cumulative effect would not be more significant than these individual effects.	Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse
St Padrig's Church, Cemaes Bay (Asset 174)	Effects on the setting of this receptor resulting from noise and visual intrusion of activities associated with the construction of the Power Station. The residual significance of this effect has been assessed to be minor adverse.	Effects are predicted on the setting of this receptor resulting from the presence of construction infrastructure, increased light and noise pollution associated with the construction of AN08 Rhyd-y-Groes Re-power. The effect has been assessed in the ES for AN08 to be moderate/minor adverse.	Intrusion on the setting of this asset by the Wylfa Newydd Project and AN08 would combine resulting in an inter-project effect. No cumulative effects during operation and decommissioning have been identified.	Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Moderate adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
			<p>No permanent cumulative effect.</p> <p>While both developments are predicted to affect the setting of this receptor, given the distance between the developments this intrusion would not be dominant and would be seen in the context of the existing developments. In consideration of this, the inter-project cumulative effect would not be more significant than these individual effects.</p>		
Windmill, Cemaes (Asset 258)	<p>Effects on this receptor comprise visual intrusion into long-distance views detracting from the semi-rural character of its setting and construction infrastructure detracting from this receptor's landmark role. Noise from construction would also result in intrusion in the quietness of this asset's rural setting.</p> <p>Decommissioning activities would result in intrusion on the semi-rural setting of the windmill, although this would be softened by the presence of the landscape mound.</p> <p>The residual significance of both effects has been assessed to be minor adverse.</p>	<p>Potential for visual intrusion into the rural setting of this receptor and temporary distraction from the landmark role of the windmill in the landscape resulting from construction activities associated with AN07 North Wales Connection Project. Using professional judgement, the significance of this effect has been predicted to be minor adverse.</p> <p>Effects are predicted on the setting of this receptor resulting from the presence of construction infrastructure, increased light and noise pollution associated with the construction of AN08 Rhed-y-Groes Re-power. The effect has been assessed in the ES for AN08 to be minor/negligible adverse.</p>	<p>Intrusion on the setting of this asset by the Wylfa Newydd Project, AN07 and AN08 would combine resulting in an inter-project effect.</p> <p>No cumulative effects during operation and decommissioning have been identified.</p> <p>No permanent cumulative effect.</p> <p>While these developments are predicted to affect the setting of this receptor, they would be seen in expansive views of the countryside and in the context of the existing developments. In consideration of this, the inter-project cumulative effect would not be more significant than these individual effects.</p>	<p>Where feasible the three project programmes should be reviewed and, where possible, overlap in major construction activities avoided.</p>	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
Llanfechell Standing Stones (Asset 342)	<p>Construction activities, the presence of the Power Station and decommissioning activities would be visible in long-distance views from the receptor to the north-east; however, relationships with other prehistoric monuments would be maintained.</p> <p>The residual significance of these effects has been assessed to be minor adverse.</p>	<p>Potential for visual intrusion into views from this receptor to the north and east resulting from construction activities associated with AN07 North Wales Connection Project. Using professional judgement, the significance of this effect has been predicted to be minor adverse.</p> <p>Potential for further visual intrusion and possible physical changes to the setting of this receptor due to the construction of AN25 Wylfa Newydd Potable Water Supply. Using professional judgement, the significance of this effect has been predicted to be minor adverse.</p>	<p>Intrusion on the setting of this asset by the Wylfa Newydd Project, AN07 and AN25 due to the overlap in construction periods would combine resulting in an inter-project effect.</p> <p>No cumulative effects during operation and decommissioning have been identified.</p> <p>No permanent cumulative effect.</p> <p>While these developments are predicted to affect the setting of this receptor, given the distance between the developments, this intrusion would not be dominant and would be seen in the context of the existing developments. In consideration of this, the inter-project cumulative effect would not be more significant than these individual effects.</p>	<p>Where feasible the three project programmes should be reviewed and, where possible, overlap in major construction activities avoided.</p>	Minor adverse
Standing Stone North of Church, Llanfechell (Asset 344)	<p>Construction activities, the presence of the Power Station and decommissioning activities would be visible in long-distance views from the receptor to the northwest; however, relationships with other prehistoric monuments would be maintained.</p> <p>The residual significance of these effects has been</p>	<p>Potential for further intrusion into the setting of this receptor resulting from construction activities associated with AN07 North Wales Connection Project as well as the presence of additional infrastructure during operation of AN07. Using professional judgement, the significance of this effect has been predicted to be minor adverse.</p> <p>Effects are predicted on the setting of this receptor resulting from the presence of construction infrastructure, increased light and noise pollution associated with the construction of AN08 Rhyd-y-Groes Re-power. The effect has been assessed in the ES for AN08 to be minor/negligible adverse.</p>	<p>Intrusion on the setting of this asset by the Wylfa Newydd Project, AN07 and AN08 due to the overlap in construction periods would combine resulting in an inter-project effect.</p> <p>The continued presence of additional infrastructure associated with AN07 into the setting of this receptor coupled with the presence of the Power Station would</p>	<p>Where feasible the three project programmes should be reviewed and, where possible, overlap in major construction activities avoided.</p>	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
	assessed to be minor adverse.		<p>cause visual intrusion into the setting of this receptor.</p> <p>No cumulative effects during decommissioning have been identified.</p> <p>No permanent cumulative effect.</p> <p>While these developments are predicted to affect the setting of this receptor, given the distance between the developments this intrusion would not be dominant and would be seen in the context of the existing developments. In consideration of this, the inter-project cumulative effect would not be more significant than these individual effects.</p>		
Old Rectory, Llanfechell (Asset 368)	<p>Effects on the setting of this receptor resulting from noise associated with the construction of the Power Station.</p> <p>The residual significance of this effect has been assessed to be minor adverse.</p>	<p>Potential effects related to construction activities due to the presence AN25 Wylfa Newydd Potable Water Supply resulting from intrusion into the setting of this receptor. Using professional judgement, the significance of this effect has been predicted to be minor adverse.</p>	<p>Intrusion on the setting of this asset by the Wylfa Newydd Project and AN25 may combine resulting in an inter-project effect.</p> <p>No cumulative effects during operation and decommissioning have been identified.</p> <p>No permanent cumulative effect.</p> <p>While these developments are predicted to affect the setting of this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.</p>	<p>Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.</p>	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
St Mechell's Church, Llanfechell (Asset 369)	<p>Effects on the setting of this receptor resulting from noise associated with construction of the Power Station; however, its village location and relationships with surrounding buildings would be maintained.</p> <p>The residual significance of this effect has been assessed to be minor adverse.</p>	<p>Effects are predicted on the setting of this receptor resulting from the presence of construction infrastructure, increased light and noise pollution associated with the construction of AN08 Rhed-y-Groes Repower. The effect has been assessed in the ES for AN08 to be minor adverse.</p> <p>Potential effects related to construction activities due to the presence of project AN25 Wylfa Newydd Potable Water Supply in close proximity to this receptor may cause further noise and visual intrusion into the setting of this receptor. Using professional judgement, the significance of this effect has been predicted to be minor adverse.</p>	<p>Intrusion on the setting of this asset by the Wylfa Newydd Project, AN08 and AN25 due to the overlap in construction periods may combine resulting in an inter-project effect.</p> <p>No cumulative effects during operation and decommissioning have been identified.</p> <p>No permanent cumulative effect.</p> <p>While these developments are predicted to affect the setting of this receptor, given the distance between the developments this intrusion would not be dominant and would be seen in the context of the existing developments. In consideration of this, the inter-project cumulative effect would not be more significant than these individual effects.</p>	<p>Where feasible the three project programmes should be reviewed and, where possible, overlap in major construction activities avoided.</p>	Minor adverse
Llanfechell (Asset 371)	<p>Effects on the Conservation Area resulting from noise associated with construction of the Power Station; however, its historic rural character would be maintained.</p> <p>The residual significance of this effect has been assessed to be minor adverse.</p>	<p>Potential effects related to construction activities due to the presence of project AN25 Wylfa Newydd Potable Water Supply in close proximity to this receptor may cause further noise and visual intrusion into the setting of this receptor. Using professional judgement, the significance of this effect has been predicted to be minor adverse.</p>	<p>Intrusion on the setting of this asset by the Wylfa Newydd Project and AN25 due to the overlap in construction periods may combine resulting in an inter-project effect.</p> <p>No cumulative effects during operation and decommissioning have been identified.</p> <p>No permanent cumulative effect.</p>	<p>Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.</p>	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
			While these developments are predicted to affect the setting of this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.		
Libanus Methodist Chapel (Asset 376)	Effects on the setting of this receptor resulting from noise associated with the construction of the Power Station. The residual significance of this effect has been assessed to be minor adverse.	Potential effects related to construction activities due to the presence of project AN25 Wylfa Newydd Potable Water Supply in close proximity to this receptor may cause further noise and visual intrusion into the setting of this receptor. Using professional judgement, the significance of this effect has been predicted to be minor adverse.	Intrusion on the setting of this asset by the Wylfa Newydd Project and AN25 due to the overlap in construction periods may combine resulting in an inter-project effect. No cumulative effects during operation and decommissioning have been identified. No permanent cumulative effect. While these developments are predicted to affect the setting of this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.	Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse
Ebenezer Welsh Independent Chapel, Llanfechell (Asset 414)	Activities associated with construction of the Power Station would be audible and visible from the chapel grounds, forming an intrusive element in its semi-rural setting. The residual significance of this effect has been assessed to be minor adverse.	Potential effects related to construction activities due to the presence of project AN25 Wylfa Newydd Potable Water Supply in close proximity to this receptor may cause further noise and visual intrusion into the setting of this receptor. Using professional judgement, the significance of this effect has been predicted to be minor adverse.	Intrusion on the setting of this asset by the Wylfa Newydd Project and AN25 due to the overlap in construction periods may combine resulting in an inter-project effect. No cumulative effects during operation and decommissioning have been identified. No permanent cumulative effect.	Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
			While these developments are predicted to affect the setting of this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.		
Pen-y-groes (Asset 621)	Arthur (Asset 621) Construction activities would result in noise and visual intrusion on the setting of this receptor. The residual significance of this effect has been assessed to be minor adverse	Temporary impact on the setting of this receptor associated with construction and operation of the Temporary Construction Compound for the A5025 On-line Highway Improvements. The effect has been assessed in the Environmental Report for the A5025 On-line Highway Improvements to be slight adverse.	Intrusion on the setting of this asset by the Wylfa Newydd Project and the A5025 On-line Highway Improvements may combine resulting in an inter-project effect. No cumulative effects during operation have been identified. No permanent cumulative effect. While these developments are predicted to affect the setting of this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.	Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse
Ty-newydd (Asset 791)	Effects on the setting of this receptor resulting from noise associated with the construction of the Power Station. The residual significance of this effect has been assessed to be minor adverse.	Potential for further intrusion into the setting of this receptor resulting from construction activities associated with AN07 North Wales Connection Project. Using professional judgement, the significance of this effect has been predicted to be minor adverse.	Intrusion on the setting of this asset by the Wylfa Newydd Project and AN07 due to the overlap in construction may combine resulting in an inter-project effect. No cumulative effects during operation have been identified. No permanent cumulative effect. While these developments are predicted to affect the	Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
			setting of this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.		
Bryngwyn (Asset 793)	Construction activities would result in noise and visual intrusion on the setting of this receptor. The residual significance of this effect has been assessed to be minor adverse.	Potential for further intrusion into the setting of this receptor resulting from construction activities associated with AN07 North Wales Connection Project. Using professional judgement, the significance of this effect has been predicted to be minor adverse.	Intrusion on the setting of this asset by the Wylfa Newydd Project and AN07 due to the overlap in construction may combine resulting in an inter-project effect. No cumulative effects during operation have been identified. No permanent cumulative effect. While these developments are predicted to affect the setting of this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.	Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse
Pentre'r-gof (Asset 799)	Construction activities would result in noise and visual intrusion in the setting of this receptor, detracting from the semi-rural character. The residual significance of this effect has been assessed to be minor adverse.	Potential effects related to construction activities due to the presence of project AN07 North Wales Connection Project may cause further noise and visual intrusion into the semi-rural setting of this receptor. Using professional judgement, the significance of this effect has been predicted to be minor adverse.	Intrusion on the setting of this asset by the Wylfa Newydd Project and AN07 may combine resulting in an inter-project effect. No cumulative effects during operation have been identified. No permanent cumulative effect. While these developments are predicted to affect the setting of this receptor, the inter-project cumulative effect has been assessed to be no more significant	Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
			than these individual effects.		
Buildings West of Gwyddelyn Fawr (Asset 802)	Construction activities would result in noise and visual intrusion on the setting of this receptor. The residual significance of this effect has been assessed to be minor adverse.	Potential effects related to construction activities due to the presence of project AN25 Wylfa Newydd Potable Water Supply may cause further noise and visual intrusion into the setting of this receptor. Using professional judgement, the significance of this effect has been predicted to be minor adverse.	<p>Intrusion on the setting of this asset by the Wylfa Newydd Project and AN25 due to the overlap in construction may combine resulting in an inter-project effect.</p> <p>No cumulative effects during operation and decommissioning have been identified.</p> <p>No permanent cumulative effect.</p> <p>While these developments are predicted to affect the setting of this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.</p>	Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse
Cae'r-gors (Asset 803)	Construction activities would result in noise and visual intrusion on the setting of this receptor. The residual significance of this effect has been assessed to be minor adverse.	Potential effects related to construction activities due to the presence of project AN25 Wylfa Newydd Potable Water Supply may cause further noise and visual intrusion into the setting of this receptor. Using professional judgement, the significance of this effect has been predicted to be minor adverse	<p>Intrusion on the setting of this asset by the Wylfa Newydd Project and AN25 due to the overlap in construction may combine resulting in an inter-project effect.</p> <p>No cumulative effects during operation and decommissioning have been identified.</p> <p>No permanent cumulative effect.</p> <p>While these developments are predicted to affect the setting of this receptor, the inter-project cumulative effect has been assessed to be no more significant</p>	Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
			than these individual effects.		
Former Inn, Tregele (Asset 806)	Construction activities would result in noise and visual intrusion on the setting of this receptor. The residual significance of this effect has been assessed to be minor.	Potential effects related to construction activities due to the presence of projects AN07 North Wales Connection Project, AN20 Utilities Diversions and AN25 Wylfa Newydd Potable Water Supply resulting from intrusion into the setting of this receptor. Using professional judgement, the significance of this effect has been predicted to be minor adverse for all three projects.	Intrusion on the setting of this asset by the Wylfa Newydd Project, AN07, AN20 and AN25 may combine resulting in an inter-project effect. No permanent cumulative effect. While these developments are predicted to affect the setting of this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.	Where feasible the four project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse
Smithy, Tregele (Asset 807)	Construction activities would result in noise and visual intrusion on the setting of this receptor. The residual significance of this effect has been assessed to be minor adverse.	Potential effects related to construction activities due to the presence of projects AN07 North Wales Connection Project, AN20 Utilities Diversions and AN25 Wylfa Newydd Potable Water Supply resulting from intrusion into the setting of this receptor. Using professional judgement, the significance of this effect has been predicted to be minor adverse for all three projects.	Intrusion on the setting of this asset by the Wylfa Newydd Project, AN07, AN20 and AN25 may combine resulting in an inter-project effect. No permanent cumulative effect. While these developments are predicted to affect the setting of this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.	Where feasible the four project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse
Residential Buildings, Tregele (Asset 808)	Construction activities would result in noise and visual intrusion on the setting of this receptor. The residual significance of this effect has been	Potential effects related to construction activities due to the presence of projects AN07 North Wales Connection Project, AN20 Utilities Diversions and AN25 Wylfa Newydd Potable Water Supply resulting from intrusion into the setting of this receptor. Using professional judgement, the significance of this effect has been predicted to be minor adverse for all three projects.	Intrusion on the setting of this asset by the Wylfa Newydd Project, AN07, AN20 and AN25 may combine resulting in an inter-project effect. No cumulative effects during operation and	Where feasible the four project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
	assessed to be minor adverse		decommissioning have been identified. No permanent cumulative effect. While these developments are predicted to affect the setting of this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.		
Cestyll Garden (HLT 2)	<p>During construction historic landscape elements, including the kitchen garden and part of the Essential setting, would be removed. Construction activities would also cause visual and aural intrusion into the setting of this receptor.</p> <p>The residual significance of this effect has been assessed to be major adverse.</p> <p>Visual intrusion into the setting and Significant Views associated with this receptor would result from the operation of the Power Station. The residual significance of this effect has been assessed to be major adverse.</p> <p>The continued presence of the breakwater in a Significant View from the valley garden would continue. Noise and visual intrusion into the setting of the valley garden and its Essential Setting would result from</p>	<p>Activities associated with AN01 Existing Power Station decommissioning may cause intrusion into the setting of this receptor. The effect has been assessed in the ES for AN01 to be slight adverse.</p> <p>Potential effects related to construction activities due to the presence of projects AN07 North Wales Connection Project, AN20 Utilities Diversions and AN25 Wylfa Newydd Potable Water Supply resulting from intrusion into the setting of this asset. Using professional judgement, the significance of this effect has been predicted to be minor adverse for these projects.</p>	<p>The Wylfa Newydd Project would have both a physical impact on Cestyll Garden (HLT 2) and intrude on its setting. Activities associated with AN01, AN07, AN20 and AN25 may result in further impacts on the key characteristics of the setting of Cestyll Garden (HLT 2). These effects would combine resulting in an inter-project cumulative effect during construction.</p> <p>Activities associated with AN01 and AN20 may continue into the operation of the Power Station.</p> <p>No cumulative effects during decommissioning have been identified.</p> <p>No permanent cumulative effect.</p> <p>As the Wylfa Newydd Project is already significantly affecting the receptor, it has been assessed that the inter-project cumulative effect</p>	<p>Where feasible the five project programmes should be reviewed and, where possible, overlap in major construction activities avoided.</p>	Major adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
	decommissioning activities. The residual significance of these effects has been assessed to be moderate adverse.		would not be more significant than this effect.		
Dame Sylvia Crowe's Landscaping Area (HLT 3)	Construction would remove landscape elements and change in the landscape character of this receptor. The residual significance of this effect has been assessed to be minor adverse. The presence of the Power Station would cause visual intrusion into key views of this receptor. The residual significance of effect has been assessed to be minor adverse. Decommissioning activities would result in noise and visual intrusion into the setting of this receptor. The residual significance of effect has been assessed to be minor adverse.	Activities associated with AN01 Existing Power Station decommissioning would cause intrusion into the setting of this receptor as well as affect our ability to understand the landscape. Using professional judgement, the significance of this effect has been predicted to be minor adverse. Potential for additional removal of landscape elements due to construction of AN07 North Wales Connection Project and presence of new infrastructure during operation. Using professional judgement, the significance of this effect has been predicted to be minor adverse.	In combination, the permanent removal of elements of this landscape by AN01, AN07 and the Wylfa Newydd Project would result in an inter-project effect. The legibility of the receptor would be further diminished by AN01 Existing Power Station decommissioning. The continued presence of AN07 and the Power Station would cause visual intrusion into views of the asset. No cumulative effects during decommissioning have been identified. Possible permanent cumulative effect. While these developments are predicted to physically affect this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.	Where feasible the three project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse
Wylfa (HLT 8)	Construction would result in the removal of elements of the landscape. The residual significance of effect has been assessed to be minor adverse.	Permanent removal of this receptor would result from AN01 Existing Power Station decommissioning. The effect has been assessed in the ES for AN01 to be Major adverse.	In combination, the permanent removal of elements of this landscape by both AN01 and the Wylfa Newydd Project would result in an inter-project effect.	Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Major adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
			<p>No cumulative effects during operation and decommissioning have been identified.</p> <p>Permanent cumulative effect.</p> <p>As AN01 is significantly affecting the receptor, it has been assessed that the inter-project cumulative effect would not be more significant than this individual effect.</p>		
Cemlyn Coastal Strip (HLT 9)	<p>Noise from activities associated with the construction of the Power Station would result in an intrusion into this historic landscape.</p> <p>The residual significance of effect has been assessed to be minor adverse.</p>	<p>Potential effects related to construction activities due to the presence of projects AN20 Utilities Diversions and AN25 Wylfa Newydd Potable Water Supply resulting from removal of elements of this historic landscape and visual and aural intrusion from associated construction activities. Using professional judgement, the significance of this effect has been predicted to be minor adverse for both projects.</p>	<p>Intrusion on this asset by the Wylfa Newydd Project, AN20 and AN25 may combine, resulting in an inter-project effect.</p> <p>No cumulative effects during operation and decommissioning have been identified.</p> <p>No permanent cumulative effect.</p> <p>While these developments are predicted to affect this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.</p>	<p>Where feasible the three project programmes should be reviewed and, where possible, overlap in major construction activities avoided.</p>	Minor adverse
Fieldscape, North-west Mon (HLT 10)	<p>Noise from activities associated with the construction of the Power Station would result in an intrusion into this historic landscape.</p> <p>The residual significance of effect has been assessed to be minor adverse.</p>	<p>Potential effects related to construction activities due to the presence of projects AN07 North Wales Connection Project, AN20 Utilities Diversions and AN25 Wylfa Newydd Potable Water Supply resulting from removal of elements of this historic landscape and visual and aural intrusion from associated construction activities. Using professional judgement, the significance of this effect has been predicted to be minor adverse for these projects.</p>	<p>Intrusion on this asset by the Wylfa Newydd Project, AN07, AN20 and AN25 may combine resulting in an inter-project effect.</p> <p>No cumulative effects during operation and decommissioning have been identified.</p>	<p>Where feasible the four project programmes should be reviewed and, where possible, overlap in major construction activities avoided.</p>	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
			No permanent cumulative effect. While these developments are predicted to affect this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.		
Two Small Orthostatic Stones on Slight Mound, South of Tyn Felin (Asset 241)	Construction of Section 7 (Cefn Coch) to the west of the asset would result in noise and visual intrusion on its setting, detracting from its rural character. The residual significance of effect has been assessed to be moderate adverse. The presence of Section 7 (Cefn Coch) would result in noise and visual intrusion on the setting of the asset. The residual significance of effect has been assessed to be moderate adverse.	Temporary impact on the setting of this receptor associated with construction and operation of the Temporary Construction Compound for the A5025 On-line Highway Improvements. The effect has been assessed in the Environmental Report for the A5025 On-line Highway Improvements to be slight adverse.	Intrusion on the setting of this asset by both the A5025 On-line Highway Improvements and A5025 Off-line Highway Improvements would combine resulting in an inter-project effect. No cumulative effects during operation have been identified. No permanent cumulative effect. As the A5025 Off-line Highway Improvements is predicted to significantly affect the setting of this receptor, it has been assessed that the inter-project cumulative effect would not be more significant than this individual effect.	Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Moderate adverse
Fieldscape, Central Eastern Mon (HLT 1)	Construction and operation of all sections of the A5025 Off-line Highway Improvements would result in the permanent removal of landscape elements and change to the historic landscape character. The residual significance of this effect has been	Potential for additional removal of landscape elements due to construction of AN07 North Wales Connection Project and AN25 Wylfa Newydd Potable Water Supply and the continued presence of new infrastructure during operation. Using professional judgement, the significance of these effects has been predicted to be minor adverse.	The removal of landscape elements and change in landscape character of this asset by the Wylfa Newydd Project, AN07 and AN25 may combine resulting in an inter-project effect during construction and operation.	Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
	assessed to be slight adverse.		Permanent cumulative effect. While these developments are predicted to affect this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.		
Trefignath Burial Chamber (Asset 21)	Construction, operation and decommissioning of the Logistics Centre would introduce additional vehicle movement into the setting of this receptor. The residual significance of this effect has been assessed to be minor adverse.	An effect is predicted on the significant views east and northeast during the proposed construction of the Cae Glas visitor car park associated with AN04 Penrhos Coastal Park, although these historic viewpoints have already been frustrated to a degree by the construction of the A55 expressway and Anglesey Aluminium. The effect has been assessed in the ES for AN04 to be minor adverse. AN06 Parc Cybi Stage 2 would have a significant adverse effect on the setting of this receptor, resulting from considerable impacts on views to the north and west.	Intrusion on the setting of this asset by the Wylfa Newydd Project, AN04 and AN06 during construction and operation may combine resulting in an inter-project effect. No cumulative effects during decommissioning have been identified. No permanent cumulative effect. While these developments are predicted to affect the setting of this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.	Where feasible the three project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse
Ty Mawr Standing Stone, Holyhead (Asset 22)	Construction, operation and decommissioning of the Logistics Centre would introduce additional vehicle movement into the setting of this receptor. The residual significance of this effect has been assessed to be minor adverse.	AN06 Parc Cybi Stage 2 would have a significant adverse effect on the setting of this receptor.	Intrusion on the setting of this asset by the Wylfa Newydd Project and AN06 during construction and operation may combine resulting in an inter-project effect. No cumulative effects during decommissioning have been identified.	Where feasible the two project programmes should be reviewed and, where possible, overlap in major construction activities avoided.	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
			No permanent cumulative effect. While these developments are predicted to affect the setting of this receptor, the inter-project cumulative effect has been assessed to be no more significant than these individual effects.		
Coastal process and geomorphology – no cumulative effects					
Marine environment					
Subtidal and intertidal habitats of conservation and commercial importance	Minor adverse effect during construction; and the risks posed by the introduction of non-native species, with further physical disturbance from TRO effects during operation.	<p>The following projects have the potential to adversely affect subtidal and intertidal habitats of conservation importance:</p> <ul style="list-style-type: none"> • Holyhead Waterfront Development (AN05); and • Amlwch Natural Gas (AN10) <p>The Environmental Statement for AN05 and AN10 were unavailable at the time of writing this Environmental Statement. Given the scale of these developments and the extent of construction within the marine environment, there may be possible effects on subtidal and intertidal habitats of conservation importance via some of the same pathways as those identified from the Wylfa Newydd Project (e.g. direct loss, physical disturbance and risks posed by the introduction of non-native species, most notably <i>Didemnum vexillum</i>). Although it is expected that adequate mitigation would be implemented to reduce potential effects, considering the value of this receptor (medium) and the proximity of the developments to one another (with possibly the same habitats of conservation importance affected), there is potential for a cumulative effect with the Wylfa Newydd Project. This would however depend on project timescales which are currently undefined for AN05 and AN10.</p>	Even with adequate mitigation to reduce potential adverse effects from AN05 and AN10, if the project timescales coincided, there could be potential for a minor adverse cumulative effect with the Wylfa Newydd Project.	None identified	Minor adverse
Invertebrates conservation (or or)	Minor adverse effect from the risks posed by the	The following projects have the potential to adversely affect invertebrates (of conservation and commercial importance):	Even with adequate mitigation to reduce potential adverse effects	None identified	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
commercial importance)	introduction of non-native species during construction.	<ul style="list-style-type: none"> • Holyhead Waterfront Development (AN05); and • Amlwch Natural Gas (AN10) <p>The Environmental Statement for AN05 and AN10 were unavailable at the time of writing this Environmental Statement. Given the scale of these developments and the extent of construction within the marine environment, there may be possible effects on subtidal and intertidal habitats of conservation importance via some of the same pathways as those identified from the Wylfa Newydd Project (e.g. direct loss, physical disturbance and risks posed by the introduction of non-native species, most notably <i>Didemnum vexillum</i>). Although it is expected that adequate mitigation would be implemented to reduce potential effects, considering the value of this receptor (medium) and the proximity of the developments to one another (with possibly the same habitats of conservation importance affected), there is potential for a cumulative effect with the Wylfa Newydd Project. This would however depend on project timescales which are currently undefined for AN05 and AN10.</p>	from AN05 and AN10, if the project timescales coincided, there could be potential for a minor adverse cumulative effect with the Wylfa Newydd Project.		
Radiological effects – no cumulative effects identified					
Shipping and navigation					
Displacement of vessels	Minor adverse effect from Wylfa Newydd Project on displacement of vessels.	The increase in number of vessels associated with Anglesey Eco Park, Holyhead Waterfront Redevelopment and Amlwch Natural Gas could lead to transiting vessels temporarily having to avoid a number of construction vessels, some of which may be restricted in manoeuvrability, and associated construction safety zones at a number of project sites. This could lead to increased vessel deviations and, hence, increased vessel to vessel collision risk for transiting vessels.	Cumulative effect during construction. No permanent cumulative effect.	None required	Minor adverse
Stranding - small recreational vessel on breakwater at Holyhead	Minor adverse effect during construction.	The increase in number of recreational vessels associated with the redevelopment of Holyhead Waterfront could lead to more recreational vessels transiting near the harbour entrance. This could lead to an increased number of small recreational vessels stranding on the breakwaters.	Cumulative effect during construction of marine works. No permanent cumulative effect due to temporary nature of marine works construction.	None required	Minor adverse

Receptor	Effect of Wylfa Newydd Project	Effects of shortlisted projects	Inter-project cumulative effect		
			Description of cumulative effect	Additional mitigation	Significance of residual cumulative effect
Collision - recreational/fishing/high speed/harbour vessel with vessel transiting to or from Wylfa Newydd	Minor adverse effect.	This cumulative effect relates to the Holyhead Waterfront Development and the Holyhead Port Expansion. The planned redevelopment of the Holyhead Waterfront includes the development of a 500-berth marina. This increase in recreational capacity is likely to increase vessel transits near to the Wylfa Newydd Development Area, increasing the likelihood of a vessel collision. The planned expansion of Holyhead Port includes dredging of an approach channel and disposal of dredged material. This activity is likely to increase vessel movements to and from the Holyhead North disposal site which may interact with dredging vessels on passage between the Wylfa Newydd Development Area and the disposal site. This activity results in a minor increase in the likelihood of a vessel collision during the construction of MOLF and Power Station.	Cumulative effects have the potential to occur throughout a vessel's passage and, therefore, the volume of additional vessel movements would be frequently above baseline volume. Cumulative effect during construction of MOLF and construction of Power Station.	None identified	Moderate adverse
Stranding - small recreational vessel on breakwater in the Wylfa Newydd Development Area	Minor adverse effect from the WNDA Development during construction.	The increase in recreational vessels associated with the redevelopment of Holyhead Waterfront could lead to an increase in recreational vessels transiting near to Wylfa Newydd Development Area. This, in turn, would increase the likelihood of vessels stranding on a breakwater.	Permanent cumulative effect due to permanent presence of breakwaters.	None identified	Moderate adverse