



Galileo 03 Ltd.

Mynydd Ty-talwyn Energy Park – Environmental Statement Volume II

Main Statement Text – Chapter 16: Summary of Effects

Project Reference: 663870

APRIL 2025

RSK

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16 SUMMARY OF EFFECTS

16.1 Introduction

- 16.1.1 The likely significant effects of the Proposed Development during the construction, operation and decommissioning phases and during the whole life cycle of the development, as assessed and reported in this volume of the ES, are summarised in **Table 16.1**, **Table 16.2**, **Table 16.3** and **Table 16.4** respectively.

16.2 Construction Phase Residual Effects

Table 16.1 Summary of the Effects Assessment for the Construction Phase of the Proposed Development

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Land and Soils					
Land (potential contamination)	Impacts on land quality due to release of existing contamination or accidental introduction of new contamination (e.g. potential spills).	Construction Environmental Management Plan (CEMP), e.g. good housekeeping, spill response, waste management. If contaminated soils are encountered, manage in line with industry best practice	CEMP, secured by planning condition. Implementation is the responsibility of the Principal Contractor.	Neutral or slight adverse (not significant) T / D / ST	No monitoring proposed.
Land (mineral safeguarding)	Temporary reduction in availability/access to safeguarded minerals (sandstone or igneous rock) within localised areas during construction activities and	No specific measures beyond standard best practice.	Embedded within the project design. Minerals remain largely safeguarded for potential future extraction after construction.	Neutral or slight adverse (not significant) T / I / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
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	minor loss of resources in excavation areas.				
Soil (physical/chemical properties)	Damage to physical structure of soil due to vehicle movements or construction activities; damage to chemical properties of soil due to accidental leaks or spillages.	CEMP, e.g. spill prevention and Soil Management Plan (SMP) such as handle soils when in suitable condition, use low ground pressure vehicles, reinstate layers properly.	CEMP and CSMP, secured by planning conditions. Outline versions of these documents have been submitted alongside this application and will be revised by the Principal Contractor, or appointed representative.	Neutral or slight adverse (not significant) T / D / ST	No monitoring proposed.
Groundwater (quantity, quality and effect on abstraction points)	Reduction in quality due to leaks or spillages or remobilisation of existing contamination. Impacts on groundwater flow due to damage to existing drainage or changes to	CEMP, e.g. bunded storage, spill kits. If piling occurs, a piling risk assessment may be required to minimise preferential pathways.	CEMP, secured by planning condition. Implementation is the responsibility of the Principal Contractor.	Neutral or slight adverse (not significant) T / D / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	groundwater regime.				
Water					
Cwm Risca Meadows SSSI and on-site hydrologically connected watercourses	Effects to water quality and quantity of local watercourses linked to the SSSI from an increase in silt-laden runoff leaving the Site.	CEMP, e.g. sediment control (silt fencing or straw bales downslope of construction works).	CEMP, secured by planning condition. Implementation is the responsibility of the Principal Contractor.	Negligible (not significant) T / D / ST	No monitoring proposed.
	Effects to water quality of local watercourses linked to the SSSI and increase in potential of spillages and leaks of fuels, oils and chemicals.	CEMP, e.g. pollution prevention (spill kits, bunded storage of fuels).	CEMP, secured by planning condition. Implementation is the responsibility of the Principal Contractor.	Negligible (not significant) T / D / ST	No monitoring proposed.
Kenfig - headwaters to tidal (Nant Craigyraber, Nant Iorweth-goch and Afon Cynffig) and on-	Effects to water quality and quantity of local watercourses and increase in silt-	CEMP, e.g. sediment control (silt fencing or straw bales downslope of construction works).	CEMP, secured by planning condition. Implementation is the responsibility of the Principal Contractor.	Negligible (not significant) T / D / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
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site hydrologically connected watercourses	laden runoff leaving the Site.				
	Effects to water quality of local watercourses and increase in potential of spillages and leaks of fuels, oils and chemicals.	CEMP, e.g. pollution prevention (spill kits, bunded storage of fuels).	CEMP, secured by planning condition. Implementation is the responsibility of the Principal Contractor.	Negligible (not significant) T / D / ST	No monitoring proposed.
WFD water body of Llynfi - Lletty Brongu STW to conf with Ogmre (Nant y Gadlys, Nant Cedfyw and Afon Llynfi) and on-site hydrologically connected watercourses	Effects to water quality and quantity of local watercourses and increase in silt-laden runoff leaving the Site.	CEMP, e.g. sediment control (silt fencing or straw bales downslope of construction works)	CEMP, secured by planning conditions	Negligible (not significant) T / D / ST	No monitoring proposed.
	Effects to water quality of local watercourses and increase in potential of spillages and leaks of fuels, oils and chemicals.	CEMP, e.g. pollution prevention (spill kits, bunded storage of fuels)	CEMP, secured by planning conditions	Negligible (not significant) T / D / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
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WFD water body of Ogmere - confluence with Llynfi to tidal limit (downstream Afon Llynfi) and on-site hydrologically connected watercourses	Effects to water quality and quantity of local watercourses and increase in silt-laden runoff leaving the Site.	CEMP, e.g. sediment control (silt fencing or straw bales downslope of construction works)	CEMP, secured by planning conditions	Negligible (not significant) T / D / ST	No monitoring proposed.
	Effects to water quality of local watercourses and increase in potential of spillages and leaks of fuels, oils and chemicals.	CEMP, e.g. pollution prevention (spill kits, bunded storage of fuels)	CEMP, secured by planning conditions	Negligible (not significant) T / D / ST	No monitoring proposed.
Cultural Heritage					
Possible Bronze Age burial mounds in Solar Parcel I	Truncation and/or partial to full destruction of potential buried archaeological remains.	Archaeological investigations (trial trench evaluation, strip/map/sample excavation, watching briefs) and/or preservation in situ (layout changes).	Written Scheme of Investigation (WSI) permission, secured by planning conditions prior to construction.	Slight adverse (not significant) P / D / N/A	No monitoring proposed.

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The medieval road of Ffordd-y-Gyfraith and its former branches to the British Fortified Residence and Mynydd Baeden	Truncation and/or partial to full destruction of potential buried archaeological remains.	Archaeological investigations (trial trench evaluation, strip/map/sample excavation, watching briefs) and/or preservation in situ (layout changes).	WSI permission, secured by planning conditions prior to construction.	Slight adverse (not significant) P / D / N/A	No monitoring proposed.
Enclosure E1 in Solar Parcel F	Truncation and/or partial to full destruction of potential buried archaeological remains.	Archaeological investigations (trial trench evaluation, strip/map/sample excavation, watching briefs) and/or preservation in situ (layout changes).	WSI permission, secured by planning conditions prior to construction.	Slight adverse (not significant) P / D / N/A	No monitoring proposed.
Enclosure E2 and associated features E3, E?4 and E?5 in Solar Parcels H & I	Truncation and/or partial to full destruction of potential buried archaeological remains.	Archaeological investigations (trial trench evaluation, strip/map/sample excavation, watching briefs) and/or preservation in situ (layout changes).	WSI permission, secured by planning conditions prior to construction.	Slight adverse (not significant) P / D / N/A	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
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Enclosure E6 in Solar Parcel G	Truncation and/or partial to full destruction of potential buried archaeological remains.	Archaeological investigations (trial trench evaluation, strip/map/sample excavation, watching briefs) and/or preservation in situ (layout changes).	WSI permission, secured by planning conditions prior to construction.	Minor adverse (not significant) P / D / N/A	No monitoring proposed.
Linear anomalies L1–L18 inclusive, representing possible evidence of human activity, period unknown	Truncation and/or partial to full destruction of potential buried archaeological remains.	Archaeological investigations (trial trench evaluation, strip/map/sample excavation, watching briefs) and/or preservation in situ (layout changes).	WSI permission, secured by planning conditions prior to construction.	Slight adverse (not significant) P / D / N/A	No monitoring proposed.
Smaller discrete anomalies U1–U7 inclusive, representing possible evidence of human activity, period unknown	Truncation and/or partial to full destruction of potential buried archaeological remains.	Archaeological investigations (trial trench evaluation, strip/map/sample excavation, watching briefs) and/or preservation in situ (layout changes).	WSI permission, secured by planning conditions prior to construction.	Slight adverse (not significant) P / D / N/A	No monitoring proposed.

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Magnetic enhancement anomalies ME1–ME11 inclusive, representing possible evidence of human activity, period unknown	Truncation and/or partial to full destruction of potential buried archaeological remains.	Archaeological investigations (trial trench evaluation, strip/map/sample excavation, watching briefs) and/or preservation in situ (layout changes).	WSI permission, secured by planning conditions prior to construction.	Slight adverse (not significant) P / D / N/A	No monitoring proposed.
Landscape and Visual					
Landscape features – grassland and hedgerows	Construction of internal access tracks, hardstanding, turbine foundations and other infrastructure would effect a small part of the overall rolling upland area (with large areas remaining unaffected).	N/A	N/A	Minor- Moderate adverse (not significant) T / D / ST	No monitoring proposed.
Landscape features – on-site woodland	Construction works are not anticipated to result in any	N/A	N/A	No effect	No monitoring proposed.

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	losses or alterations that would affect the character of the landscape.				
Visual and Sensory Aspect Area CYNON VS473 Host - Mynydd Baeden	Change in the visual character of the southern parts of the aspect area due to views of construction activities	N/A	N/A	Moderate adverse (significant) T / D / ST	No monitoring proposed.
Visual and Sensory Aspect Areas: - CYNONVS531 – Maesteg - CYNON VS813 - Garw and Caeru Forest - CYNONVS151 – Ffordd Y Graith - CYNONVS955- Cribr - NPTVS927 – Mynydd Margam	Change in the visual character of the aspect area due to views of construction activities	N/A	N/A	Minor adverse (not significant) T / D / ST	No monitoring proposed.

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- NPTVS403 – Margam CP - CYNONVS813 - Garw and Caerau Forest (portions beyond 5km) - CYNONVS550 - Mynydd y Aber - NPTVS962 - Mynydd Nant y bar/Mynydd Blaenafan - CYNONVS142 - Mynydd y Glyn - CYNONVS349 - Mynydd Llangenwyr (portions beyond 5km) - CYNONVS790 - Cefn Hirgoed - VLFGLVS825 - Newton Down					

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- VLFGLVS828 - Between Bridgend and Merthyr Mawr - NPTVS811 - Margam Scarp - NPTVS274 - Coastal Dunes - NPTVS799 - Eglwy Nymydd Reservoir					
Visual and Sensory Aspect Areas: - CYNONVS884 – Lynfi Valley - CYNONVS966 – Bettws - CYNONVS349 - Mynydd Llangenwyr - CYNONVS811 - Garth Hill - NPTVS897 – Mynydd Bromil and Scarp Slopes	Change in the visual character of the aspect area due to views of construction activities	N/A	N/A	Minor- Moderate adverse (not significant) T / D / ST	No monitoring proposed.

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- VLFGLVS663 - Ogmore and Old Castle Downs - NPTVS920 - Kenfig Sands					
Visual and Sensory Aspect Area NPTVS543 - Coedhirwaun	Change in the visual character of the aspect area due to views of construction activities	N/A	N/A	Negligible - Minor adverse (not significant) T / D / ST	No monitoring proposed.
Visual and Sensory Aspect Areas: - CYNONVS148 – Cym ogwr - CYNONVS847 - Pyle - CYNONVS726 - Bridgend - NPTVS001 – Margam Opencast - CYNONVS731- Conifer west of the study area	Change in the visual character of the aspect area due to views of construction activities	N/A	N/A	Negligible (not significant) T / D / ST	No monitoring proposed.

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- VLFGLVS378 - Alun Valley - NPTVS837 - Margam Works - NPTVS277 - Margam Moor					
Visual Viewpoint 1: Margam Park (Access Road)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 2: On PRoW, Margam Park Deer Park / Ogwr Ridgeway Long Distance Walk	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 3: Ogwr Ridgeway Walk	Change to the existing view as a result of construction activities (including	N/A	N/A	Moderate - Major adverse (significant) T / I / ST	No monitoring proposed.

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	the presence of cranes)				
Visual Viewpoint 4: Llangynwyd Conservation Area	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Major - Moderate adverse (significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 5: Heol Gelli Lenor, Maesteg	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Major - Moderate adverse (significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 6: Heol Dewi Sant, Bettws	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Major - Moderate adverse (significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 7: Bridge over River	Change to the existing view as a	N/A	N/A	Negligible (not significant)	No monitoring proposed.

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Llynfi east of Coytrahen	result of construction activities (including the presence of cranes)			T / I / ST	
Visual Viewpoint 8: Bridgend Circular Walk	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Moderate adverse (not significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 9: Heol Shon, Cefn Cribwr	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Major - Moderate adverse (significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 10: Kenfig Burrows	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	No effect (not significant)	No monitoring proposed.

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Visual Viewpoint 11: Wales Coast Path at Ogmore-by-Sea	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	No effect (not significant)	No monitoring proposed.
Visual Viewpoint 12: Ogwr Ridgeway Walk at Waun Wen	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Moderate adverse (not significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 13: Pen y Foel Trig Point	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Moderate adverse (significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 14: Mumbles Hill, Swansea	Change to the existing view as a result of construction activities (including	N/A	N/A	No effect (not significant)	No monitoring proposed.

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	the presence of cranes)				
Visual Viewpoint 15: Ogof-Ffynnon-Ddu (Bannau Brycheniniog National Park)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	No effect (not significant)	No monitoring proposed.
Llangynwyd – hamlet to the west	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Moderate adverse (not significant) T / I / ST	No monitoring proposed.
Llangynwyd – remaining area	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Negligible adverse or not effect (not significant) T / I / ST	No monitoring proposed.
Lletty Brongu	Change to the existing view as a	N/A	N/A	Moderate adverse (not significant)	No monitoring proposed.

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	result of construction activities (including the presence of cranes)			T / I / ST	
Bettws	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Moderate-minor adverse (not significant) T / I / ST	No monitoring proposed.
Cefn Cribwr	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Moderate-minor adverse (not significant) T / I / ST	No monitoring proposed.
Kenfig Hill and Pyle	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.

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Coedhirwaun	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Negligible (not significant) T / I / ST	No monitoring proposed.
Pen-y-fai	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
Wales Coastal Path (Ogmore-on-Sea to Swansea)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.
Cistercian Way - sections within Margam Park	Change to the existing view as a result of construction activities (including	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.

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	the presence of cranes)				
Cistercian Way - other sections within study area	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.
Ogwr Ridgeway Walk - section through Site (3-4 km)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Major adverse (significant) T / I / ST	No monitoring proposed.
Ogwr Ridgeway Walk - sections within 5 km of Site	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Moderate adverse (not significant) T / I / ST	No monitoring proposed.

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Ogwr Ridgeway Walk - sections within 5-10 km of site	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
Ogwr Ridgeway Walk - sections beyond 10 km	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.
Route 4	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.
Route 4 - Margam Park section	Change to the existing view as a result of construction activities (including	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.

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	the presence of cranes)				
Route 4 - coastal sections	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.
Route 884 (Bryngarw House to Pontycymmer)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Minor - Negligible adverse (not significant) T / I / ST	No monitoring proposed.
Route 885 (Bridgend to Afan Forest Park)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Moderate-Minor adverse (not significant) T / I / ST	No monitoring proposed.

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Route 887 (Port Talbot to Afan Forest Park)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Moderate-Minor adverse (not significant) T / I / ST	No monitoring proposed.
M4 (users of)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
A4063 (users of)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Moderate to Minor adverse (not significant to significant at limited gaps in vegetation) T / I / ST	No monitoring proposed.
A48 (users of)	Change to the existing view as a result of construction activities (including	N/A	N/A	Moderate-Minor adverse (not significant) T / I / ST	No monitoring proposed.

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	the presence of cranes)				
A4107 (users of)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Negligible (not significant) T / I / ST	No monitoring proposed.
A4229 (users of)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
A473 (users of)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
A4061 (users of)	Change to the existing view as a result of	N/A	N/A	Minor adverse (not significant)	No monitoring proposed.

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	construction activities (including the presence of cranes)			T / I / ST	
A4106 (users of)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
B4281 (users of)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Moderate adverse (significant) T / I / ST	No monitoring proposed.
B4265 (users of)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.

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B4524 (users of)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
South Wales Main Line Railway (users of)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
Maesteg Line Railway (users of)	Change to the existing view as a result of construction activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
Noise and Vibration					
NSR 1, 2, 13 and 15	Construction noise effects on residential	CEMP implementing BPM for noise control.	CEMP, secured by planning condition	Minor adverse (not significant) T / D / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	sensitive receptors.				
NSR 3-5, 14, 16, 19-20	Construction noise effects on residential sensitive receptors.	CEMP implementing BPM for noise control.	CEMP, secured by planning condition.	Negligible (not significant) T / D / ST	No monitoring proposed.
NSR 13	Construction vibration effects on residential sensitive receptors.	CEMP implementing BPM for vibration control.	CEMP, secured by planning condition.	Minor adverse (not significant) T / D / ST	No monitoring proposed.
NSR1-12 and NSR 14-30	Construction vibration effects on residential sensitive receptors.	CEMP implementing BPM for vibration control.	CEMP, secured by planning condition.	Negligible (not significant) T / D / ST	No monitoring proposed.
All NSR 1 – NSR30	Construction traffic noise effects on residential sensitive receptors.	Construction Traffic Management Plan (CTMP) e.g designated routes, limit speeds, schedule heavy good deliveries.	CTMP secured by planning condition.	Negligible (not significant) T / D / ST	No monitoring proposed.
Ornithology					

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
All key ornithological features	Habitat loss associated with reduction in extent of woodland and hedgerow during construction.	Habitat reinstatement and enhancement following construction (grassland, woodland, hedgerows). Creation of replacement nesting/foraging habitats as per Habitat Management Plan (HMP) and Green Infrastructure Statement (GIS). Pollution prevention measures to protect retained habitats from accidental damage,	CEMP, secured by planning condition. Habitat Management Plan, secured by planning condition and Ecological Clerk of Works (ECow) to ensure compliance.	County / Local importance No significant residual effects	Preconstruction surveys and potential monitoring of schedule 1 nesting bird species as well as other species if required. Monitoring required to ensure successful implementation of habitat creation.
Lapwing	Disturbance during construction activities associated with the development resulting in increased noise, human presence,	Protection measures if active lapwing nesting sites occur in or near works (e.g. restricting works in a set radius or timing them to avoid the breeding season). Habitat management enhancements to	CEMP, secured by planning condition. ECow to ensure compliance.	County / Local importance No significant residual effects	Monitoring required to ensure lapwing using mitigation areas for nesting.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	lighting and pollution effects.	ensure alternative or improved nesting areas remain functional. Minimising abrupt noise events, with ECoW oversight.			
Breeding bird assemblage		Pre-construction nesting bird checks and set-back distances for active nests. Limiting vegetation removal to outside the breeding season (where possible). Measures to reduce unnecessary noise, dust, or nighttime working (lighting).	CEMP, secured by planning condition. ECoW to ensure compliance.	County importance No significant residual effects	Monitoring required to ensure breeding bird assemblage using mitigation areas for nesting.
Wintering bird assemblage		Minimisation of noise, lighting, and pollutant risks in winter months if works coincide with peak foraging usage. Retain and protect key features (e.g.	CEMP, secured by planning condition. ECoW to ensure compliance.	County importance No significant residual effects	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
		hedgerows, grass margins) as far as possible.			
Terrestrial Ecology					
Cwm Risca Meadow SSSI - National importance	Indirect effect on species rich acid meadow which could lead to potential changes in species assemblages.	Pollution prevention measures will be implemented to prevent spills contaminating important ecological features. Dust suppression measures throughout the Site.	CEMP, secured by planning condition.	No residual effects	No monitoring proposed.
NPT Watercourses SINC- County importance	Pollution run off from construction works entering groundwater, potentially ending up at the designated site.	Pollution prevention measures.	CEMP, secured by planning condition.	No residual effects	No monitoring proposed.
Cwm Nant Gwyn SINC - County importance	Pollution run off from construction works entering groundwater,	Pollution prevention measures.	CEMP, secured by planning condition.	No residual effects	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	potentially ending up at the designated site. Increase in possible air pollutants from construction of the Proposed Development.				
Nant Cwm-bach SINC - County importance	Pollution run off from construction works entering groundwater, potentially ending up at the designated site. Increase in possible air pollutants from construction of the Proposed Development.	Pollution prevention measures.	CEMP, secured by planning condition.	No residual effects	No monitoring proposed.
	Construction of an access track across Nant Cwm-bach SINC will	Woodland planting within the wider Site to compensate for tree loss.	Habitat Management Plan (HMP) permission, secured	Significant adverse (Local) P / D / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	directly impact the SINC.		by planning conditions.		
Gilfach Uchaf - County importance	Pollution run off from construction works entering groundwater, potentially ending up at the designated site. Increase in possible air pollutants from construction of the Proposed Development.	Pollution prevention measures.	CEMP, secured by planning condition.	No residual effects	No monitoring proposed.
	Construction of an access track across Gilfach Uchaf (within a habitat not included within the SINC designation) will not impact the SINC.	N/A – embedded mitigation already avoids the qualifying habitats.	N/A	No residual effects	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
NPT Ancient Semi-Natural Woodland SINC- County importance	Pollution run off from construction works entering groundwater, potentially ending up at the designated site. Increase in possible air pollutants from construction of the Proposed Development.	Pollution prevention measures.	CEMP, secured by planning condition.	No residual effects	No monitoring proposed.
Woodland - Local importance	Removal of 0.03 ha of woodland to facilitate construction activities.	Woodland planting (28 ha throughout the Site) to extend woodland associated with Cwm Nant Gwyn SINC. See Net Biodiversity Benefit Report and HMP for details.	HMP, secured by planning condition.	Significant beneficial (Local) P / D / LT	Monitoring of compensatory habitat required.
Hedgerows - Local importance	Removal of vegetation to facilitate construction	Hedgerow planting (2.89 km of new planting) to compensate for	HMP secured by planning condition.	Significant beneficial (Local) P / D / LT	Monitoring of compensatory habitat required.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	activities leading to loss of small sections of hedgerow totalling 200 m of hedgerow.	hedgerow loss and improve connectivity. See HMP for details.			
Fungi – County importance	Pollution run off from construction works entering groundwater and contaminating surrounding habitat. Increase in possible air pollutants (including dust) from construction of the Proposed Development. These could affect (reduce) the fungi assemblage present.	Pollution prevention measures.	CEMP and Net Biodiversity Benefit (NBB) Report permission, secured by planning conditions.	No residual effects	No monitoring proposed.
	Removal of vegetation	Enhancement of grassland habitats	CEMP and NBB Report permission,	No residual effects	Monitoring of habitat

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	containing fungi to facilitate construction activities including plant tracking through habitat.	nearby (and turf stripping, where feasible) to maintain or relocate mycelium.	secured by planning conditions.		enhancements required.
Fungi - Local importance	Removal of vegetation containing fungi to facilitate construction activities including plant tracking through habitat.	Enhancement of grassland habitats to maintain/relocate mycelium if feasible.	CEMP and NBB Report permission, secured by planning conditions.	Significant beneficial (Local) P / D / LT	Monitoring of compensatory habitat required.
	Pollution run off from construction works entering groundwater and contaminating surrounding habitat. Increase in possible air pollutants (including dust) from construction	Pollution prevention measures.	CEMP and NBB Report permission, secured by planning conditions.	No residual effects	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	of the Proposed Development. These could affect (reduce) the fungi assemblage present.				
Invasive non-native species	Spreading invasive non-native species inadvertently through construction activities (including enabling works).	Invasive Non-Native Species Management Plan implemented prior to the commencement of work	Invasive Non-Native Species Management Plan, secured by planning conditions	Significant beneficial (Local) P / D / LT	Monitoring of eradication management required
Great crested newt - Local importance	No impacts to great crested newt are anticipated as there are no construction activities taking place within 350 m of the nearest waterbody with great crested newt presence.	N/A	N/A	No residual effects	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Bats (roosting) – Local importance	Removal of potential bat roosting trees to facilitate construction activities.	Bat boxes installed onsite to compensate for loss of roosting habitat in trees (2 potential roosts).	HMP secured by planning condition.	Significant beneficial (Local) P / D / LT	Monitoring of compensatory habitat required.
Bats (foraging and commuting) – Local importance	Removal of vegetation to facilitate construction activities leading to loss of small sections of hedgerow totalling 200 m of hedgerow. The removal of sections of hedgerows could lead to fragmentation of habitats which could prevent bats moving around the landscape.	CEMP referencing hedgerow replanting to mitigate fragmentation (2.89 km new hedgerow).	CEMP, secured by planning condition.	Significant beneficial (Local) P / D / LT	Monitoring of compensatory habitat required.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Hazel dormouse – Local importance	Removal of vegetation to facilitate construction activities leading to loss of small sections of hedgerow totalling 200 m of hedgerow. The removal of sections of hedgerows could lead to fragmentation of habitats which could prevent dormice moving around the landscape.	CEMP and woodland & hedgerow planting (2.89 km hedgerow, 28 ha woodland) to ensure connectivity for dormouse.	CEMP, secured by planning condition.	Significant beneficial (Local) P / D / LT	Monitoring of compensatory habitat required.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Otter - local importance	Access tracks are required over two watercourses within the Site. An open span bridge will be constructed in the north of the site. The construction works could cause disturbance to otter if present within the northern watercourse which could temporarily prevent otter movement.	Open span bridge design or bottomless arch culvert to ensure free otter passage. No night time working unless agreed with local authority.	CEMP, secured by planning condition.	Not significant adverse (Local) T / I / ST	No monitoring proposed.
Traffic & Transport					
Users of A4063	Changes in traffic quantity or composition leading to increased perception of	CTMP, e.g. delivery of HGVs/ abnormal loads outside peak commuter times, roadside signage and community liaison.	CTMP secured by planning condition.	Minor adverse (not significant) T / I / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	severance, driver and pedestrian delay, risk on road safety and effects on amenity of non-motorised users.				
	Increased fear and intimidation.	CTMP, e.g. delivery of HGVs/abnormal loads outside peak commuter times, roadside signage and community liaison.	CTMP secured by planning condition.	Negligible (not significant) T / I / ST	No monitoring proposed.
Users of B4281	Changes in traffic quantity or composition leading to increased perception of severance, driver and pedestrian delay, fear and intimidation, risk on road safety and effects on amenity of non-motorised users	CTMP, e.g. delivery of HGVs/ abnormal loads outside peak commuter times, roadside signage and community liaison.	CTMP secured by planning condition.	Minor adverse (not significant) T / I / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Users of Fountain Road	Changes in traffic quantity or composition leading to increased perception of severance, driver and pedestrian delay, fear and intimidation, risk on road safety and effects on amenity of non-motorised users.	CTMP, e.g. delivery of HGVs/ abnormal loads outside peak commuter times, roadside signage and community liaison.	CTMP secured by planning condition.	Minor adverse (not significant) T / I / ST	No monitoring proposed.
Residents in: - Aberkenfig; - Tondu; - Coytrahen; - Llangynwyd	Changes in traffic quantity or composition leading to increased perception of severance, driver and pedestrian delay, fear and intimidation, risk on road safety and effects on amenity	CTMP, e.g. delivery of HGVs/ abnormal loads outside peak commuter times, roadside signage and community liaison.	CTMP secured by planning condition.	Minor adverse (not significant) T / I / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	of non-motorised users				
Public Rights of Way Users	Increase perception of severance.	CTMP/Access Management Plan	CTMP/Access (PRoW) Management Plan permission, secured by planning conditions.	Minor adverse (not significant) T / I / ST	No monitoring proposed.
	Increased pedestrian delay.	CTMP/Access Management Plan, e.g. marshalled crossings if footpaths intersect a haul route.	CTMP/ Access (PRoW) Management Plan permission, secured by planning conditions.	Minor adverse (not significant) T / D / MT	No monitoring proposed.
	Effects on amenity of non-motorised users.	CTMP/Access Management Plan, e.g. safe signage & route marking.	CTMP/PRoW Management Plan permission, secured by planning conditions.	Minor adverse (not significant) T / I / MT	No monitoring proposed.
	Increased levels of fear and intimidation.	CTMP/Access Management Plan, e.g. speed restrictions	CTMP, secured by planning conditions.	Minor adverse (not significant) T / I / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	Increase risk on road safety.	CTMP Access Management Plan, e.g. on-site briefing for construction drivers.	CTMP/PRoW Management Plan permission, secured by planning conditions.	Minor adverse (not significant) T / D / MT	No monitoring proposed.
Abnormal Load Route – Users of B4281, Users of Fountain Road and Residents in Aberkenfig	Presence of hazardous/large loads	Abnormal Load Transport Management Plan.	CTMP secured by planning condition. Highways Agreements (S278, S61).	Minor adverse (not significant) T / D / ST	No monitoring proposed.
Population					
PRoW	Temporary disruption to users of the Ogwr Ridgeway Walk that runs through the Site.	Access Management Plan.	Access Management Plan permission, secured by planning condition. An outline version of this plan has been submitted alongside this application (ES Volume III, Appendix 13.1)	Slight to Moderate Adverse (not significant) T / D / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
			Outline Access Management Plan) and will be revised by the Applicant prior to the start of construction.		
PRoW	Temporary disruption to users of recreational routes in the wider study area.	N/A	N/A	Neutral to Slight Adverse (not significant) T / I / ST	No monitoring proposed.
Tourism	Potential impacts on small scale tourism facilities.	N/A	N/A	Neutral to Slight Adverse (not significant) T / I / ST	No monitoring proposed.
Tourism	Potential impacts on main tourist attractions within 20 km.	N/A	N/A	Neutral to Slight Adverse (not significant) T / I / ST	No monitoring proposed.
Businesses	Temporary impacts to businesses associated with adverse traffic,	N/A	N/A	Slight Adverse (not significant) T / I / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	noise and visual impacts.				
Employment	An increase in temporary construction related employment opportunities in the local area.	N/A	N/A	Slight Beneficial (not significant) T / D&I / ST	No monitoring proposed.
Employment	An increase in temporary construction related employment opportunities in Wales.	N/A	N/A	Slight Beneficial (not significant) T / D&I / ST	No monitoring proposed.
GVA	An increase in temporary construction GVA.	N/A	N/A	Slight to Moderate Beneficial (not significant) T / D&I / ST	No monitoring proposed.
Intra-Project Combined Effects					
Users of on-Site PRoW	Users of on-site PRoW would experience a significant change	Access (PRoW) Management Plan.	Access (PRoW) Management Plan, secured by condition.	Significant T / D&I / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	in views and disruption including possible delays and temporary diversions.				
Users of off-Site PRoW	Users of PRoW in the wider area would experience a change in views and possible increased disruptions due to increased presence of construction or decommissioning traffic.	Access (PRoW) Management Plan.	Access (PRoW) Management Plan, secured by condition.	Not Significant T / D&I / ST	No monitoring proposed.
Users of A4063	Users of the A4063 would experience both traffic related effects and highly filtered changes in view.	CTMP, e.g. designated routes, limit speeds, schedule heavy good deliveries.	CTMP secured by planning condition.	Not Significant T / D&I / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Users of B4281	Users of the B4281 would experience both traffic related effects and changes in view.	CTMP, e.g. designated routes, limit speeds, schedule heavy good deliveries.	CTMP secured by planning condition.	Not Significant T / D&I / ST	No monitoring proposed.

16.3 Operation Phase Residual Effects

Table 16.2 Summary of the Effect Assessment for the Operation Phase of the Proposed Development

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Land and Soils					
Land (potential contamination)	Impacts on land quality due to release of existing contamination or accidental introduction of new contamination.	Battery Safety Management Plan (BSMP) for BESS components.	BSMP secured by planning condition.	Neutral or slight adverse (not significant) T / D / ST	No monitoring proposed.
Soil (physical/ chemical properties)	Damage to physical structure of soil due to vehicle movements or operational/maintenance	N/A	N/A	Neutral or slight adverse (not significant) T / D / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	activities; damage to chemical properties of soil due to accidental leaks or spillages.				
Groundwater (quantity, quality and effect on abstraction points)	Reduction in quality due to leaks or spillages or remobilisation of existing contamination. Impacts on groundwater flow due to damage to existing drainage or changes to groundwater regime.	N/A	N/A	Neutral or slight adverse (not significant) T / D / ST	No monitoring proposed.
Water					
Cwm Risca Meadows SSSI and on-site hydrologically connected watercourses	Effects to water quality and quantity of local watercourses linked to the SSSI from increased hardstanding.	Vegetation and planting beneath the solar PV panels. Drainage Design including Sustainable Drainage Systems (SuDS).	Surface Water Drainage Strategy within FCA, secured by planning conditions.	Negligible (not significant) T / D / ST	Maintenance of SuDS in line with a management schedule.
	Water quality of local watercourses and increase in potential of spillages and leaks of fuels, oils and chemicals	Use of well-maintained vehicles.	Operator's Environmental management System.	Negligible (not significant) T / D / ST	N/A

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	which could in turn effect the SSSI due to vehicles for infrastructure maintenance or replacement .				
WFD water body of Kenfig - headwaters to tidal (Nant Craigyraber, Nant Iorweth-goch and Afon Cynffig) and on-site hydrologically connected watercourses	Effects to water quality and quantity of local watercourses from increased hardstanding.	Vegetation and planting beneath the solar PV panels. Drainage Design including SuDS.	Surface Water Drainage Strategy within FCA, secured by planning conditions.	Negligible (not significant) T / D / ST	Maintenance of SuDS in line with a management schedule.
	Effects to water quality and quantity of local watercourses from potential firewater runoff contributed by the BESS components.	The use of impermeable membranes and an automatic penstock system in the BESS to prevent surface water discharge of firewater runoff in the unlikely event of fire.	Surface Water Drainage Strategy within FCA, secured by planning conditions.	Negligible (not significant) T / D / ST	Maintenance of SuDS in line with a management schedule.
	Effects to water quality of local watercourses and increase in potential of spillages and leaks of fuels, oils and chemicals due to vehicles for infrastructure	Use of well-maintained vehicles.	Operator's Environmental management System.	Negligible (not significant) T / D / ST	N/A

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	maintenance or replacement .				
WFD water body of Llynfi - Lletty Brongu STW to conf with Ogmre (Nant y Gadlys, Nant Cedfyw and Afon Llynfi) and on-site hydrologically connected watercourses	Effects to water quality and quantity of local watercourses from increased hardstanding.	Vegetation and planting beneath the solar PV panels. Drainage Design including SuDS.	Surface Water Drainage Strategy within FCA, secured by planning conditions.	Negligible (not significant) T / D / ST	Maintenance of SuDS in line with a management schedule.
	Effects to water quantity of local watercourses from proposed watercourse crossings.	Suitably designed crossings allowing passage of water during flood event plus a blockage and a freeboard allowance. A clear-span bridge or a bottomless arch culvert preference.	Detailed design secured by planning conditions.	Negligible (not significant) P / D / LT	N/A
	Effects to water quality of local watercourses and increase in potential of spillages and leaks of fuels, oils and chemicals due to vehicles for infrastructure	Use of well-maintained vehicles.	Operator's Environmental management System.	Negligible (not significant) T / D / ST	N/A

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	maintenance or replacement .				
WFD water body of Ogmre - confluence with Llynfi to tidal limit (downstream Afon Llynfi) and on-site hydrologically connected watercourses	Water quality and quantity of local watercourses from hardstanding.	Vegetation and planting beneath the solar PV panels. Drainage Design including SuDS.	Surface Water Drainage Strategy within FCA, secured by planning conditions.	Negligible (not significant) T / D / ST	Maintenance of SuDS in line with a management schedule.
	Water quality of local watercourses and increase in potential of spillages and leaks of fuels, oils and chemicals due to vehicles for infrastructure maintenance or replacement .	Use of well-maintained vehicles.	Operator's Environmental management System.	Negligible (not significant) T / D / ST	N/A
Cultural Heritage					
British Fortified Residence GM086	Change to the visible character of part of the landscape featuring in panoramic views from the asset.	N/A	N/A	Moderate adverse (not significant) T / I / N/A	No monitoring proposed.
Mynydd Ty Talwyn Ancient Farms GM092	Change to the visible character of part of the	N/A	N/A	Large adverse (significant)	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	landscape featuring in panoramic views from the asset.			T / I / N/A	
Mynydd Ty Talwyn Ancient Farms GM093	Change to the visible character of part of the landscape featuring in panoramic views from the asset.	N/A	N/A	Large adverse (significant) T / I / N/A	No monitoring proposed.
Earthwork and Platform Houses N of Nant Fadog GM340	Change to the visible character of part of the landscape featuring in panoramic views from the asset.	N/A	N/A	Large adverse (significant) T / I / N/A	No monitoring proposed.
Church of St Cynwyd	Change to the visible character of part of the landscape featuring in panoramic views from the asset.	N/A	N/A	Moderate adverse (not significant) T / I / N/A	No monitoring proposed.
Llangynwyd Conservation Area	Change to the visible character of part of the landscape featuring in panoramic views from the asset.	N/A	N/A	Slight or moderate adverse (not significant) T / I / N/A	No monitoring proposed.
Landscape and Visual					

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Landscape features – grassland and hedgerows	New vegetation planting including 2.89 km of new or improved hedgerows	N/A	N/A	Year 1 – Minor beneficial (not significant) P / D / ST - MT Year 15 – Minor-moderate beneficial (not significant) P / D / LT	Monitoring of planting required. See ES Volume III, Appendix 10.4: Net Biodiversity Benefit Report and HMP for details.
Landscape features – on-site woodland	New vegetation planting including 28 ha of semi-natural broadleaved woodland	N/A	N/A	Year 1 – Minor beneficial (not significant) P / D / ST - MT Year 15 – Minor-moderate beneficial (not significant) P / D / LT	Monitoring of planting required.
Visual and Sensory Aspect Area CYNON VS473 Host - Mynydd Baeden	Change in the visual character of the aspect area due to the introduction of the Proposed Development	N/A	N/A	Major adverse (significant) P / D & I / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Visual and Sensory Aspect Areas: - CYNONVS884 – Lynfi Valley - CYNONVS966 – Bettws - CYNONVS349 - Mynydd Llangenwyr - CYNONVS811 - Garth Hill - NPTVS897 – Mynydd Bromil and Scarp Slopes - CYNONVS142 - Mynydd y Glyn	Change in the visual character of the aspect area due to views of the Proposed Development	N/A	N/A	Moderate adverse (significant) P / I / LT	No monitoring proposed.
Visual and Sensory Aspect Areas: - CYNONVS531 – Maesteg - NPTVS927 – Mynydd Margam	Change in the visual character of the aspect area due to views of the Proposed Development	N/A	N/A	Minor – moderate adverse (not significant) P / I / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
- NPTVS962 - Mynydd Nant y bar/Mynydd Blaenafan - CYNONVS550 - Mynydd y Aber - CYNONVS349 - Mynydd Llangenwyr (portions beyond 5km) - VLFGLVS663 - Ogmre and Old Castle Downs - NPTVS920 - Kenfig Sands					
Visual and Sensory Aspect Areas: - CYNON VS813 - Garw and Caeru Forest - CYNONVS151 – Ffordd Y Graith - CYNONVS955- Cribr	Change in the visual character of the aspect area due to views of the Proposed Development	N/A	N/A	Minor adverse (not significant) P / I / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
- CYNONVS731- Conifer west of the study area - NPTVS403 – Margam CP - CYNONVS813 - Garw and Caerau Forest (portions beyond 5km) - CYNONVS790 - Cefn Hirgoed - VLFGLVS825 - Newton Down - VLFGLVS828 - Between Bridgend and Merthyr Mawr - NPTVS811 - Margam Scarp - NPTVS274 - Coastal Dunes - NPTVS799 - Eglwy Nymydd Reservoir					
Visual and Sensory Aspect Areas:	Change in the visual character of the aspect	N/A	N/A	Negligible – Minor (not significant)	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
- NPTVS543 - Coedhirwaun	area due to views of the Proposed Development			P / I / LT	
Visual and Sensory Aspect Areas: - CYNONVS148 – Cym ogwr - CYNONVS847 – Pyle - CYNONVS726 - Bridgend - NPTVS001 – Margam Opencast - VLFGLVS378 - Alun Valley - NPTVS837 - Margam Works - NPTVS277 - Margam Moor	Change in the visual character of the aspect area due to views of the Proposed Development	N/A	N/A	Negligible (not significant) P / I / LT	No monitoring proposed.
Visual Viewpoint 1: Margam Park (Access Road)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate – minor adverse (not significant) P / I / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Visual Viewpoint 2: On PRow, Margam Park Deer Park / Ogwr Ridgeway Long Distance Walk	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate adverse (not significant) P / I / LT	No monitoring proposed.
Visual Viewpoint 3: Ogwr Ridgeway Walk	Change to the existing view as a result of the Proposed Development	N/A	N/A	Major adverse (significant) P / I / LT	No monitoring proposed.
Visual Viewpoint 4: Llangynwyd Conservation Area	Change to the existing view as a result of the Proposed Development	N/A	N/A	Major adverse (significant) P / I / LT	No monitoring proposed.
Visual Viewpoint 5: Heol Gelli Lenor, Maesteg	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate adverse (significant) P / I / LT	No monitoring proposed.
Visual Viewpoint 6: Heol Dewi Sant, Bettws	Change to the existing view as a result of the Proposed Development	N/A	N/A	Major adverse (significant) P / I / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Visual Viewpoint 7: Bridge over River Llynfi east of Coytrahen	Change to the existing view as a result of the Proposed Development	N/A	N/A	Negligible (not significant) P / I / LT	No monitoring proposed.
Visual Viewpoint 8: Bridgend Circular Walk	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate adverse (not significant) P / I / LT	No monitoring proposed.
Visual Viewpoint 9: Heol Shon, Cefn Cribwr	Change to the existing view as a result of the Proposed Development	N/A	N/A	Major - moderate adverse (significant) P / I / LT	No monitoring proposed.
Visual Viewpoint 10: Kenfig Burrows	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate – minor adverse (not significant) P / I / LT	No monitoring proposed.
Visual Viewpoint 11: Wales Coast Path at Ogmore-by-Sea	Change to the existing view as a result of the Proposed Development	N/A	N/A	No Effect (not significant) P / I / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Visual Viewpoint 12: Ogwr Ridgeway Walk at Waun Wen	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate adverse (not significant) P / I / LT	No monitoring proposed.
Visual Viewpoint 13: Pen y Foel Trig Point	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate adverse (significant) P / I / LT	No monitoring proposed.
Visual Viewpoint 14: Mumbles Hill, Swansea	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate-minor adverse (not significant) P / I / LT	No monitoring proposed.
Visual Viewpoint 15: Ogof-Ffynnon-Ddu (Bannau Brycheniniog National Park)	Change to the existing view as a result of the Proposed Development	N/A	N/A	No Effect (not significant) P / I / LT	No monitoring proposed.
Llangynwyd – hamlet to the west	Change to the existing view as a result of the Proposed Development	N/A	N/A	Major adverse (significant) P / I / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Llangynwyd – remaining area	Change to the existing view as a result of the Proposed Development	N/A	N/A	Negligible adverse or no effect (not significant) P / I / LT	No monitoring proposed.
Lletty Brongu	Change to the existing view as a result of the Proposed Development	N/A	N/A	Major adverse (significant) P / I / LT	No monitoring proposed.
Bettws	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate adverse (significant) P / I / LT	No monitoring proposed.
Cefn Cribwr	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate adverse (significant) P / I / LT	No monitoring proposed.
Kenfig Hill and Pyle	Change to the existing view as a result of the Proposed Development	N/A	N/A	Minor adverse (not significant) P / I / LT	No monitoring proposed.
Coedhirwaun	Change to the existing view as a result of the Proposed Development	N/A	N/A	Negligible adverse (not significant) P / I / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Pen-y-fai	Change to the existing view as a result of the Proposed Development	N/A	N/A	Minor adverse (not significant) P / I / LT	No monitoring proposed.
Wales Coastal Path (Ogmore-on-Sea to Swansea)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate-Minor to Minor adverse (not significant) P / I / LT	No monitoring proposed.
Cistercian Way - sections within Margam Park	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate-Minor adverse (not significant) P / I / LT	No monitoring proposed.
Cistercian Way - other sections within study area	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate-Minor to Minor adverse (not significant) P / I / LT	No monitoring proposed.
Ogwr Ridgeway Walk - section through Site (3-4 km)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Major adverse (significant) P / I / LT	No monitoring proposed.
Ogwr Ridgeway Walk - sections within 5 km of Site	Change to the existing view as a result of the Proposed Development	N/A	N/A	Major-Moderate adverse (not significant) P / I / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Ogwr Ridgeway Walk - sections within 5-10 km of site	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate adverse (not significant) P / I / LT	No monitoring proposed.
Ogwr Ridgeway Walk - sections beyond 10 km	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate- Minor to Minor adverse (not significant) P / I / LT	No monitoring proposed.
Route 4	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate-Minor adverse (not significant) P / I / LT	No monitoring proposed.
Route 4 - Margam Park section	Change to the existing view as a result of the Proposed Development	N/A	N/A	Minor adverse (not significant) P / I / LT	No monitoring proposed.
Route 4 - coastal sections	Change to the existing view as a result of the Proposed Development	N/A	N/A	Minor-negligible adverse (not significant) P / I / LT	No monitoring proposed.
Route 884 (Bryngarw House to Pontycymmer)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Minor-negligible adverse (not significant) P / I / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Route 885 (Bridgend to Afan Forest Park)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate-Minor adverse (not significant) P / I / LT	No monitoring proposed.
Route 887 (Port Talbot to Afan Forest Park)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Minor-negligible adverse (not significant) P / I / LT	No monitoring proposed.
M4 (users of)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Minor adverse (not significant) P / I / LT	No monitoring proposed.
A4063 (users of)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate to Minor adverse (not significant to significant at limited gaps in vegetation) P / I / LT	No monitoring proposed.
A48 (users of)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate-Minor adverse (not significant) P / I / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
A4107 (users of)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Negligible adverse (not significant) P / I / LT	No monitoring proposed.
A4229 (users of)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Minor adverse (not significant) P / I / LT	No monitoring proposed.
A473 (users of)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Minor adverse (not significant) P / I / LT	No monitoring proposed.
A4061 (users of)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Minor to Moderate- Minor adverse (not significant) P / I / LT	No monitoring proposed.
A4106 (users of)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Minor adverse (not significant) P / I / LT	No monitoring proposed.
B4281 (users of)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Moderate adverse (significant) P / I / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
B4265 (users of)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Negligible adverse (not significant) P / I / LT	No monitoring proposed.
B4524 (users of)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Minor adverse (not significant) P / I / LT	No monitoring proposed.
South Wales Main Line Railway (users of)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Minor adverse (not significant) P / I / LT	No monitoring proposed.
Maesteg Line Railway (users of)	Change to the existing view as a result of the Proposed Development	N/A	N/A	Minor adverse (not significant) P / I / LT	No monitoring proposed.
Noise and Vibration					
All NSR 1 – NSR30	Operational noise effects from solar, BESS and substation infrastructure.	N/A	N/A	Negligible / minor adverse (not significant) P / D / LT	No monitoring proposed.
All NSR 1 – NSR30	Operational noise effects from wind turbines.	N/A	N/A	Not significant P / D / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
All NSR 1 – NSR30	Operational noise effects from cumulative wind turbines.	N/A	N/A	Not significant P / D / LT	No monitoring proposed.
All NSR 1 – NSR30	Cumulative operational noise effects from cumulative wind turbines.	N/A	N/A	Not significant P / D / LT	No monitoring proposed.
Ornithology					
All key ornithological features	Potential for reduction in foraging availability for passerine and raptor species alongside reduction in suitable nesting habitat for key ornithological species associated with grassland habitats. Potential for collision risk with turbine blades during operation, note this is not considered likely to be significant for passerine species but other bird species were	Habitat Management and Monitoring Plan (HMMP) established to support post-construction habitat enhancement for key species such as lapwing and passerines. Targeted habitat enhancement measures in specific management areas.	HMMP permission, secured by planning conditions.	No significant residual effects	Monitoring required to ensure lapwing and breeding bird assemblage using mitigation areas for nesting.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	subject to collision risk modelling.				
Red kite	Presence of proposed wind turbines and solar panels during operation phase have the potential to cause disturbance and displacement through presence of unfamiliar infrastructure in suitable habitat and increased human presence during the operation phase. There is the potential for collision risk with turbine blades during operation.	N/A	N/A	No significant residual effects	No monitoring proposed.
Lapwing		HMMP includes habitat areas managed to enhance suitability for breeding (e.g. open ground, reduced disturbance).	HMMP permission, secured by planning condition.	No significant residual effects	No monitoring proposed.
Terrestrial Ecology					
Bats (roosting) – Local importance	No impacts on roosting bats are anticipated during operation.	N/A	N/A	No residual effects	No monitoring proposed.
Bats (foraging and commuting) – Local importance	Operational lighting of the Proposed Development could cause disturbance to	N/A – embedded mitigation.	HMMP permission, secured by	Significant adverse (Local) P / I / LT	Bat activity monitoring will be required to assess changes in bat

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	foraging and commuting bats.		planning condition.		activity patterns and the efficacy of mitigation (secured through a Bat Mitigation and Monitoring Plan (BMMP)).
	Unknown impact of solar farms displacing bats.	N/A – embedded mitigation.	HMMP permission, secured by planning condition.	Significant adverse (Local) P / I / LT	Bat activity monitoring will be required to assess changes in bat activity patterns and the efficacy of mitigation (secured through a BMMP).
	Noise from BESS.	N/A – embedded mitigation.	HMMP permission, secured by planning condition.	Significant adverse (Local) P / I / LT	Bat activity monitoring will be required to assess changes in bat activity patterns and the efficacy of mitigation (secured through a BMMP).
	Collision risk.	N/A – embedded mitigation.	HMMP permission, secured by	Significant adverse (Local)	Bat fatality monitoring will be required to confirm the accuracy

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
			planning condition.	P / D / LT	of the collision risk assessment, (secured through a BMMP).
Invasive non-native species	Spreading invasive non-native species inadvertently through operational maintenance activities.	Continued eradication programme (INNS Management Plan) Biosecurity measures for operational staff and equipment Ongoing habitat management to limit spread of Japanese Knotweed, Montbretia, Himalayan Balsam.	HMMP permission, secured by planning condition.	Significant beneficial (Local) P / D / LT	Monitoring of eradication management required.
Traffic and Transport					
Users of A4063	Changes in traffic quantity or composition leading to increased perception of severance, pedestrian delay, levels of fear and intimidation, risk on road safety and effects on amenity of non-motorised users.	Management of public access and PRoW during operation to ensure safe access for all users.	Access (PRoW) Management Plan secured by planning condition.	Negligible (not significant) T / I / LT	No monitoring proposed.
Users of B4281					
Users of Fountain Road					
Residents in Aberkenfig					
Residents in Tondy					

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Residents in Coytrahen					
Residents in Llangynwyd					
Public Rights of Way Users					
Population					
PRoW	Permanent disruption to the recreational amenity of users of the Ogwr Ridgeway Walk that runs through the Site.	Outline Access Management Plan.	Access Management Plan, secured by planning condition. S106 Agreement: a financial contribution for footpath enhancements.	Neutral (not significant) P / D / LT	No monitoring proposed.
PRoW	Permanent disruption to users of recreational routes in the wider study area.	N/A	N/A	Slight Beneficial (not significant) T / I / ST	No monitoring proposed.
Tourism	Potential impacts on small scale tourism facilities.	N/A	N/A	Neutral to Slight Adverse (not significant)	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
				P / I / LT	
Tourism	Potential impacts on main tourist attractions within 20 km.	N/A	N/A	Neutral (not significant) P / I / LT	No monitoring proposed.
Businesses	Permanent impacts to businesses associated with visual impacts.	N/A	N/A	Neutral to Slight Adverse (not significant) P / I / LT	No monitoring proposed.
Employment	An increase in operational related employment opportunities in the local area.	N/A	N/A	Slight Beneficial (not significant) P / D&I / LT	No monitoring proposed.
Employment	An increase in operational related employment opportunities in Wales.	N/A	N/A	Slight Beneficial (not significant) P / D&I / LT	No monitoring proposed.
GVA	An increase in operational phase related GVA.	N/A	N/A	Slight to Moderate Beneficial (not significant) P / D&I / LT	No monitoring proposed.
Intra-Project Combined Effects					

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
The Windsor Barn Gilfach Uchaf Farm Gilfach Ganol Farm	This receptor group would experience a significant change in views and not significant change to background noise levels.	N/A	N/A	Significant. T / D&I / LT	No monitoring proposed.
Ty Trisant Pentre Lodge Pant Isaf	This receptor group would experience a significant change in views and not significant change to background noise levels.	N/A	N/A	Not significant. T / D&I / LT	No monitoring proposed.
Ty Talwyn Farm The Old Stables	This receptor group would experience a significant change in views and not significant change to background noise levels.	N/A	N/A	Not significant. T / D&I / LT	No monitoring proposed.
Maes Cadlawr Maes Cadlawr Farm	This receptor group would experience a significant change in views and not significant change to background noise levels.	N/A	N/A	Significant. T / D&I / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Cefn Ydfa Farm House	This receptor would experience a not significant change in views and to background noise levels.	N/A	N/A	Significant. T / D&I / LT	No monitoring proposed.
Gelli Las Farm	This receptor would experience a not significant change in views and to background noise levels.	N/A	N/A	Not significant. T / D&I / LT	No monitoring proposed.
Cwmrisca Farm	This receptor would experience a not significant change in views and to background noise levels.	N/A	N/A	Not significant. T / D&I / LT	No monitoring proposed.
Ton Phillip Farm	This receptor would experience a not significant change in views and to background noise levels.	N/A	N/A	Not significant. T / D&I / LT	No monitoring proposed.
Tynton Farm	This receptor would experience a significant change in views and not significant change to background noise levels.	N/A	N/A	Significant. T / D&I / LT	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation will be secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Gadlys Farm	This receptor would experience a significant change in views and not significant change to background noise levels.	N/A	N/A	Significant. T / D&I / LT	No monitoring proposed.
Bryn Cynan Farm	This receptor would experience a significant change in views and not significant change to background noise levels.	N/A	N/A	Significant. T / D&I / LT	No monitoring proposed.

16.4 Decommissioning Phase Residual Effects

Table 16.3 Summary of the Effect Assessment for the Decommissioning Phase of the Proposed Development

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Land and Soils					
Land (potential contamination)	Impacts on land quality due to release of existing contamination or	Decommissioning Environmental Management Plan	DEMP secured by planning condition.	Neutral or slight adverse (not significant)	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	accidental introduction of new contamination.	(DEMP), e.g. emergency procedures for spills and leaks, good housekeeping, pollution prevention practices.		T / D / ST	
Soil (physical/ chemical properties)	Damage to physical structure of soil due to vehicle movements or decommissioning activities; damage to chemical properties of soil due to accidental leaks or spillages.	Soil Management Plan (SMP), e.g. no working in unsuitable conditions, use low ground pressure vehicles, restore soil profiles in correct order.	SMP and DEM P secured by planning conditions.	Neutral or slight adverse (not significant) T / D / ST	No monitoring proposed.
Groundwater (quantity, quality and effect on abstraction points)	Reduction in quality due to leaks or spillages or remobilisation of existing contamination. Impacts on groundwater flow due to damage to existing	SMP and DEM P e.g, emergency response plans, bunded storage areas, piling risk assessment if applicable.	SMP and DEM P secured by planning conditions.	Neutral or slight adverse (not significant) T / D / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	drainage or changes to groundwater regime.				
Water					
Cwm Risca Meadows SSSI and on-site hydrologically connected watercourses	Water quality and quantity of local watercourses and increase in silt-laden runoff leaving the site.	DEMP, e.g. no storage of vehicles and equipment within Flood Zone 2/3 or within 15 m of watercourses; fencing/straw bales downslope of works	DEMP secured by planning condition.	Negligible (not significant) T / D / ST	No monitoring proposed.
	Water quality of local watercourses and increase in potential of spillages and leaks of fuels, oils and chemicals.	DEMP, e.g. vehicles inspected on arrival and rejected if leaking; double-skinned bunded fuel bowser located away from watercourse; spill kit.	DEMP secured by planning condition.	Negligible (not significant) T / D / ST	No monitoring proposed.
WFD water body of Kenfig - headwaters to tidal (Nant Craigyraber, Nant Iorweth-goch and	Water quality of local watercourses and increase in silt-laden runoff leaving the site.	DEMP, e.g. no storage of vehicles and equipment within Flood Zone 2/3 or within 15 m of	DEMP secured by planning condition.	Negligible (not significant) T / D / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Afon Cynffig) and on-site hydrologically connected watercourses		watercourses; fencing/straw bales downslope of works.			
	Water quality of local watercourses and increase in potential of spillages and leaks of fuels, oils and chemicals.	DEMP, e.g. vehicles inspected on arrival and rejected if leaking; double-skinned bunded fuel bowser located away from watercourse; spill kit.	DEMP secured by planning condition.	Negligible (not significant) T / D / ST	No monitoring proposed.
WFD water body of Llynfi - Lletty Brongu STW to conf with Ogmre (Nant y Gadlys, Nant Cedfyw and Afon Llynfi) and	Water quality of local watercourses and increase in silt-laden runoff leaving the site.	DEMP, e.g. no storage of vehicles and equipment within Flood Zone 2/3 or within 15 m of watercourses; fencing/straw bales downslope of works.	DEMP secured by planning condition.	Negligible (not significant) T / D / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
on-site hydrologically connected	Water quality of local watercourses and increase in potential of spillages and leaks of fuels, oils and chemicals.	DEMP, e.g. vehicles inspected on arrival and rejected if leaking; double-skinned bunded fuel bowser located away from watercourse; spill kit.	DEMP secured by planning condition.	Negligible (not significant) T / D / ST	No monitoring proposed.
WFD water body of Ogmere - confluence with Llynfi to tidal limit (downstream Afon Llynfi) and on-site hydrologically connected watercourses	Water quality of local watercourses and increase in silt-laden runoff leaving the site.	DEMP, e.g. no storage of vehicles and equipment within Flood Zone 2/3 or within 15 m of watercourses; fencing/straw bales downslope of works	DEMP secured by planning condition.	Negligible (not significant) T / D / ST	No monitoring proposed.
	Water quality of local watercourses and increase in potential of spillages and leaks of fuels, oils and chemicals.	DEMP, e.g. vehicles inspected on arrival and rejected if leaking; double-skinned bunded fuel bowser located away	DEMP secured by planning condition.	Negligible (not significant) T / D / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
		from watercourse; spill kit			
Cultural Heritage					
Possible Bronze Age burial mounds in Solar Parcel I	Truncation and/or partial to full destruction of potential buried archaeological remains.	N/A	N/A	Slight adverse (not significant) P / D / N/A	No monitoring proposed.
The medieval road of Ffordd-y-Gyfraith and its former branches to the British Fortified Residence and Mynydd Baeden	Truncation and/or partial to full destruction of potential buried archaeological remains.	N/A	N/A	Minor adverse (not significant) P / D / N/A	No monitoring proposed.
Enclosure E1 at Maescadlawr	Truncation and/or partial to full destruction of potential buried archaeological remains.	N/A	N/A	Slight adverse (not significant) P / D / N/A	No monitoring proposed.
Enclosure E2 and associated features E3,	Truncation and/or partial to full destruction of	N/A	N/A	Slight adverse (not significant)	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
E4 and E5 at Cefn-y-gelli	potential buried archaeological remains.			P / D / N/A	
Enclosure E6 at Baiden Farm	Truncation and/or partial to full destruction of potential buried archaeological remains.	N/A	N/A	Slight adverse (not significant) P / D / N/A	No monitoring proposed.
Linear anomalies L1–L18 inclusive, representing possible evidence of human activity, period unknown	Truncation and/or partial to full destruction of potential buried archaeological remains.	N/A	N/A	Slight adverse (not significant) P / D / N/A	No monitoring proposed.
Smaller discrete anomalies U1–U7 inclusive, representing possible evidence of human activity, period unknown	Truncation and/or partial to full destruction of potential buried archaeological remains.	N/A	N/A	Slight adverse (not significant) P / D / N/A	No monitoring proposed.
Magnetic enhancement anomalies ME1–ME11 inclusive, representing possible evidence of	Truncation and/or partial to full destruction of	N/A	N/A	Slight adverse (not significant) P / D / N/A	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
human activity, period unknown	potential buried archaeological remains.				
British Fortified Residence GgwM086	Change to the visible character of part of the landscape featuring in panoramic views from the asset – restoration of baseline conditions	N/A	N/A	Negligible (not significant) P / ID / N/A	No monitoring proposed.
Mynydd Ty Talwyn Ancient Farms GM092	Change to the visible character of part of the landscape featuring in panoramic views from the asset – restoration of baseline conditions.	N/A	N/A	Negligible (not significant) P / ID / N/A	No monitoring proposed.
Mynydd Ty Talwyn Ancient Farms GM093	Change to the visible character of part of the landscape featuring in panoramic views from the asset – restoration of baseline conditions.	N/A	N/A	Negligible (not significant) P / ID / N/A	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Earthwork and Platform Houses N of Nant Fadog GM340	Change to the visible character of part of the landscape featuring in panoramic views from the asset – restoration of baseline conditions.	N/A	N/A	Negligible (not significant) P / ID / N/A	No monitoring proposed.
Church of St Cynwyd	Change to the visible character of part of the landscape featuring in panoramic views from the asset – restoration of baseline conditions.	N/A	N/A	Negligible (not significant) P / ID / N/A	No monitoring proposed.
Llangynwyd Conservation Area	Change to the visible character of part of the landscape featuring in panoramic views from the asset – restoration of baseline conditions.	N/A	N/A	Negligible (not significant) P / ID / N/A	No monitoring proposed.
Landscape and Visual					

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Landscape features – grassland and hedgerows	Some limited impact to the landscape features of the Site from the movement of plant and workers associated with the removal of the built development during decommissioning. Short term medium impacts to the grassland on which the solar arrays would be decommissioned	N/A	N/A	Grassland Moderate adverse (not significant) T / D / ST Other areas Minor- Moderate adverse (not significant) T / D / ST	No monitoring proposed.
Landscape features – on-site woodland	decommissioning works are not anticipated to result in any losses or alterations that would affect the character of the landscape.	N/A	N/A	No effect	No monitoring proposed.
Visual and Sensory Aspect Area CYNON VS473 Host -	Change in the visual character of the southern parts of the aspect area	N/A	N/A	Moderate adverse (significant) T / D / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Mynydd Baeden	due to views of decommissioning activities				
Visual and Sensory Aspect Areas: CYNONVS531 – Maesteg CYNON VS813 - Garw and Caeru Forest CYNONVS151 – Ffordd Y Graith CYNONVS955- Cribr NPTVS927 – Mynydd Margam NPTVS403 – Margam CP CYNONVS813 - Garw and Caerau Forest (portions beyond 5km)	Change in the visual character of the aspect area due to views of decommissioning activities	N/A	N/A	Minor adverse (not significant) T / D / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
CYNONVS550 - Mynydd y Aber NPTVS962 - Mynydd Nant y bar/Mynydd Blaenafan CYNONVS142 - Mynydd y Glyn CYNONVS349 - Mynydd Llangeknwyr (portions beyond 5km) CYNONVS790 - Cefn Hirgoed VLFGLVS825 - Newton Down VLFGLVS828 - Between Bridgend and Merthyr Mawr NPTVS811 - Margam Scarp					

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
NPTVS274 - Coastal Dunes NPTVS799 - Eglwy Numydd Reservoir					
Visual and Sensory Aspect Areas: CYNONVS884 – Lynfi Valley CYNONVS966 – Bettws CYNONVS349 - Mynydd Llangeknwyr CYNONVS811 - Garth Hill NPTVS897 – Mynydd Bromil and Scarp Slopes	Change in the visual character of the aspect area due to views of decommissioning activities	N/A	N/A	Minor- Moderate adverse (not significant) T / D / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
VLFLVS663 - Omore and Old Castle Downs NPTVS920 - Kenfig Sands					
Visual and Sensory Aspect Area NPTVS543 - Coedhirwaun	Change in the visual character of the aspect area due to views of decommissioning activities	N/A	N/A	Negligible - Minor adverse (not significant) T / D / ST	No monitoring proposed.
Visual and Sensory Aspect Areas: CYNONVS148 – Cym ogwr CYNONVS847 - Pyle CYNONVS726 - Bridgend NPTVS001 – Margam Opencast	Change in the visual character of the aspect area due to views of decommissioning activities	N/A	N/A	Negligible (not significant) T / D / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
CYNONVS731- Conifer west of the study area VLFGLVS378 - Alun Valley NPTVS837 - Margam Works NPTVS277 - Margam Moor					
Visual Viewpoint 1: Margam Park (Access Road)	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 2: On PRoW, Margam Park Deer Park / Ogwr Ridgeway Long Distance Walk	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 3: Ogwr Ridgeway Walk	Change to the existing view as a result of decommissioning	N/A	N/A	Moderate - Major adverse	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	activities (including the presence of cranes)			(significant) T / I / ST	
Visual Viewpoint 4: Llangynwyd Conservation Area	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Major - Moderate adverse (significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 5: Heol Gelli Lenor, Maesteg	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Major - Moderate adverse (significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 6: Heol Dewi Sant, Bettws	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Major - Moderate adverse (significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 7: Bridge over River Llynfi east of Coytrahen	Change to the existing view as a result of decommissioning	N/A	N/A	Negligible (not significant) T / I / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	activities (including the presence of cranes)				
Visual Viewpoint 8: Bridgend Circular Walk	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Moderate adverse (not significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 9: Heol Shon, Cefn Cribwr	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Major - Moderate adverse (significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 10: Kenfig Burrows	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	No effect (not significant)	No monitoring proposed.
Visual Viewpoint 11: Wales Coast Path at Ogmere-by-Sea	Change to the existing view as a result of decommissioning	N/A	N/A	No effect (not significant)	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	activities (including the presence of cranes)				
Visual Viewpoint 12: Ogwr Ridgeway Walk at Waun Wen	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Moderate adverse (not significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 13: Pen y Foel Trig Point	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Moderate adverse (significant) T / I / ST	No monitoring proposed.
Visual Viewpoint 14: Mumbles Hill, Swansea	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	No effect (not significant)	No monitoring proposed.
Visual Viewpoint 15: Ogof-Ffynnon-Ddu (Bannau Brycheniniog National Park)	Change to the existing view as a result of decommissioning	N/A	N/A	No effect (not significant)	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	activities (including the presence of cranes)				
Llangynwyd – hamlet to the west	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Moderate adverse (not significant) T / I / ST	No monitoring proposed.
Llangynwyd – remaining area	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Negligible adverse or not effect (not significant) T / I / ST	No monitoring proposed.
Lletty Brongu	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Moderate adverse (not significant) T / I / ST	No monitoring proposed.
Bettws	Change to the existing view as a result of decommissioning	N/A	N/A	Moderate-minor adverse (not significant) T / I / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	activities (including the presence of cranes)				
Cefn Cribwr	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Moderate-minor adverse (not significant) T / I / ST	No monitoring proposed.
Kenfig Hill and Pyle	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
Coedhirwaun	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Negligible (not significant) T / I / ST	No monitoring proposed.
Pen-y-fai	Change to the existing view as a result of decommissioning	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
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	activities (including the presence of cranes)				
Wales Coastal Path (Ogmore-on-Sea to Swansea)	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.
Cistercian Way - sections within Margam Park	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.
Cistercian Way - other sections within study area	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.
Ogwr Ridgeway Walk - sections within 5 km of Site	Change to the existing view as a result of decommissioning	N/A	N/A	Moderate adverse (not significant) T / I / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	activities (including the presence of cranes)				
Ogwr Ridgeway Walk - sections within 5-10 km of site	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
Ogwr Ridgeway Walk - sections beyond 10 km	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.
Route 4	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.
Route 4 - Margam Park section	Change to the existing view as a result of decommissioning	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.

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Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	activities (including the presence of cranes)				
Route 4 - coastal sections	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.
Route 884 (Bryngarw House to Pontycymmer)	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Minor - Negligible adverse (not significant) T / I / ST	No monitoring proposed.
Route 885 (Bridgend to Afan Forest Park)	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Moderate-Minor adverse (not significant) T / I / ST	No monitoring proposed.
Route 887 (Port Talbot to Afan Forest Park)	Change to the existing view as a result of decommissioning	N/A	N/A	Moderate-Minor adverse (not significant) T / I / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	activities (including the presence of cranes)				
M4 (users of)	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
A4063 (users of)	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Moderate to Minor adverse (not significant to significant at limited gaps in vegetation) T / I / ST	No monitoring proposed.
A48 (users of)	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Moderate-Minor adverse (not significant) T / I / ST	No monitoring proposed.
A4107 (users of)	Change to the existing view as a result of decommissioning	N/A	N/A	Negligible (not significant)	No monitoring proposed.

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Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	activities (including the presence of cranes)			T / I / ST	
A4229 (users of)	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
A473 (users of)	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
A4061 (users of)	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
A4106 (users of)	Change to the existing view as a result of decommissioning	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.

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	activities (including the presence of cranes)				
B4281 (users of)	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Moderate adverse (significant) T / I / ST	No monitoring proposed.
B4265 (users of)	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Negligible adverse (not significant) T / I / ST	No monitoring proposed.
B4524 (users of)	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
South Wales Main Line Railway (users of)	Change to the existing view as a result of decommissioning	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.

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	activities (including the presence of cranes)				
Maesteg Line Railway(users of)	Change to the existing view as a result of decommissioning activities (including the presence of cranes)	N/A	N/A	Minor adverse (not significant) T / I / ST	No monitoring proposed.
Noise and Vibration					
NSR 1, 2, 13 and 15	Decommissioning noise effects on residential sensitive receptors.	N/A	N/A	Minor adverse (not significant) T / D / ST	No monitoring proposed.
NSR3-5, 14, 16, 19-20	Decommissioning noise effects on residential sensitive receptors.	N/A	N/A	Negligible (not significant) T / D / ST	No monitoring proposed.
All NSR 1 – NSR30	Decommissioning traffic noise effects on residential sensitive receptors.	N/A	N/A	Negligible (not significant) T / D / ST	No monitoring proposed.
Ornithology					

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
All key ornithological features	Potential for reduction in foraging availability for passerine and raptor species alongside reduction in suitable nesting habitat for key ornithological species associated with grassland habitats. Potential for collision risk with turbine blades during operation, <u>note this is not considered likely to be significant for passerine species but other bird species were subject to collision risk modelling.</u>	HMMP established to support post-construction habitat enhancement for key species such as lapwing and passerines. Targeted habitat enhancement measures in specific management areas.	HMMP permission, secured by planning conditions.	County / Local importance No significant residual effects	Monitoring required to ensure lapwing and breeding bird assemblage using mitigation areas for nesting.
Red Kite	Presence of proposed wind turbines and solar panels during operation	N/A	N/A	County importance No significant residual effects	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
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Lapwing	phase have the potential to cause disturbance and displacement through presence of unfamiliar infrastructure in suitable habitat and increased human presence during the operation phase. <u>There is the potential for collision risk with turbine blades during operation.</u>	HMMP includes habitat areas managed to enhance suitability for breeding (e.g. open ground, reduced disturbance).	HMMP permission, secured by planning condition.	County importance No significant residual effects	No monitoring proposed.
Terrestrial Ecology					
Cwm Risca Meadow SSSI - County importance	Indirect effect on species rich acid meadow which could lead to potential changes in species assemblages.	Pollution prevention measures will be implemented to prevent spills contaminating important ecological features.	DEMP permission, secured by planning condition.	No residual effects	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
		Dust suppression measures throughout the Site.			
NPT Watercourses SINC- County importance	Pollution run off from construction works entering groundwater, potentially ending up at the designated site.	Pollution prevention measures.	DEMP permission, secured by planning condition.	No residual effects	No monitoring proposed.
Cwm Nant Gwyn SINC - County importance	Pollution run off from construction works entering groundwater, potentially ending up at the designated site. Increase in possible air pollutants from construction of the Proposed Development.	Pollution prevention measures.	DEMP permission, secured by planning condition.	No residual effects	No monitoring proposed.
Nant Cwm-bach SINC - County importance	Pollution run off from construction works entering groundwater, potentially ending up at the designated site.	Pollution prevention measures.	DEMP permission, secured by planning condition.	No residual effects	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	Increase in possible air pollutants from construction of the Proposed Development.				
Gilfach Uchaf - County importance	Pollution run off from construction works entering groundwater, potentially ending up at the designated site. Increase in possible air pollutants from construction of the Proposed Development.	Pollution prevention measures.	DEMP permission, secured by planning condition.	No residual effects	No monitoring proposed.
NPT Ancient Semi-Natural Woodland SINC- County importance	Pollution run off from construction works entering groundwater, potentially ending up at the designated site. Increase in possible air pollutants from construction of the Proposed Development.	Pollution prevention measures.	DEMP permission, secured by planning condition.	No residual effects	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Invasive non-native species	Spreading invasive non-native species inadvertently through construction activities (including enabling works).	Invasive Non-Native Species Management Plan implemented prior to the commencement of work.	Invasive Non-Native Species Management Plan, secured by planning condition.	Significant beneficial (Local) P / D / LT	Monitoring of eradication management required.
Great crested newt - Local importance	No impacts to great crested newt are anticipated as there are no construction activities taking place within 350 m of the nearest waterbody with great crested newt presence.	N/A	N/A	No residual effects	No monitoring proposed.
Bats (roosting) – Local importance	Removal of potential bat roosting trees to facilitate construction activities.	Bat boxes installed onsite to compensate for loss of roosting habitat in trees (2 potential roosts).	HMP secured by planning condition.	Significant beneficial (Local) P / D / LT	Monitoring of compensatory habitat required
Bats (foraging and commuting) – Local importance	Removal of vegetation to facilitate construction activities leading to loss	DEMP referencing hedgerow replanting to mitigate	DEMP permission, secured by	Significant beneficial (Local)	Monitoring of compensatory habitat required

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	of small sections of hedgerow totalling 200 m of hedgerow. The removal of sections of hedgerows could lead to fragmentation of habitats which could prevent bats moving around the landscape.	fragmentation (2.89 km new hedgerow).	planning conditions.	P / D / LT	
Hazel dormouse – Local importance	Removal of vegetation to facilitate construction activities leading to loss of small sections of hedgerow totalling 200 m of hedgerow. The removal of sections of hedgerows could lead to fragmentation of habitats which could prevent dormice moving around the landscape.	DEMP and woodland & hedgerow planting (2.89 km hedgerow, 28 ha woodland) to ensure connectivity for dormouse.	DEMP permission, secured by planning condition.	Significant beneficial (Local) P / D / LT	Monitoring of compensatory habitat required

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Otter - local importance	Access tracks are required over two watercourses within the Site. An open span bridge will be constructed in the north of the site. The construction works could cause disturbance to otter if present within the northern watercourse which could temporarily prevent otter movement.	Open span bridge design or bottomless arch culvert to ensure free otter passage. No night time working unless agreed with local authority.	DEMP permission, secured by planning condition.	Not significant adverse (Local) T / I / ST	No monitoring proposed.
Traffic and Transport					
Users of A4063	Changes in traffic quantity or composition leading to increased perception of severance, pedestrian delay, levels of fear and intimidation, risk on road safety and	Management of public access and PRow during operation to ensure safe access for all users.	Access (PRow) Management Plan secured by planning condition.	Minor adverse (not significant) T / I / LT	No monitoring proposed.
Users of B4281					
Users of Fountain Road					
Residents in Aberkenfig					

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Residents in Tondy	effects on amenity of non-motorised users.				
Residents in Coytrahen					
Residents in Llangynwyd					
Public Rights of Way Users					
Population					
PRoW	Temporary disruption to users of the Ogwr Ridgeway Walk that runs through the Site.	Access Management Plan.	Access Management Plan permission, secured by planning condition. S106 Agreement: a financial contribution for footpath enhancements.	Slight to Moderate Adverse (not significant) T / D / ST	No monitoring proposed.
PRoW	Temporary disruption to users of recreational	N/A	N/A	Neutral to Slight Adverse (not significant)	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	routes in the wider study area.			T / I / ST	
Tourism	Potential impacts on small scale tourism facilities.	N/A	N/A	Neutral to Slight Adverse (not significant) T / I / ST	No monitoring proposed.
Tourism	Potential impacts on main tourist attractions within 20 km.	N/A	N/A	Neutral to Slight Adverse (not significant) T / I / ST	No monitoring proposed.
Businesses	Temporary impacts to businesses associated with adverse traffic, noise and visual impacts.	N/A	N/A	Slight Adverse (not significant) T / I / ST	No monitoring proposed.
Employment	An increase in temporary construction related employment opportunities in the local area.	N/A	N/A	Slight Beneficial (not significant) T / D&I / ST	No monitoring proposed.

Receptor	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
Key: P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Employment	An increase in temporary construction related employment opportunities in Wales.	N/A	N/A	Slight Beneficial (not significant) T / D&I / ST	No monitoring proposed.
GVA	An increase in temporary construction GVA.	N/A	N/A	Slight to Moderate Beneficial (not significant) T / D&I / ST	No monitoring proposed.

Table 16.4 Summary of the Effect Assessment for the Whole Lifecycle of the Proposed Development (Construction, Operation, and Decommissioning)

Impact	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
Climate					
Global Atmosphere	The Proposed Development is anticipated to result in GHG Savings of	N/A	N/A	Beneficial (significant) P / D / LT	No monitoring proposed.

Impact	Potential effects	Additional (secondary and tertiary) mitigation	How additional mitigation secured	Residual effects	Monitoring
P/T = Permanent or Temporary, D/I = Direct or Indirect, ST/MT/LT = Short Term, Medium Term or Long Term, N/A = Not Applicable					
	1,941,451 tCO ₂ e against a grid-mix electricity generation over its 50-year lifespan, and 4,185,159 tCO ₂ e against a fossil fuel mix electricity generation. The Proposed Development's carbon saving potential will contribute positively to meeting Welsh greenhouse gas emissions targets.				