



Wylfa Newydd Project

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Cultural heritage

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Contents

11	Cultural heritage	1
11.1	Introduction	1
11.2	Study area	1
11.3	Baseline environment	5
	<i>Archaeological remains</i>	6
	<i>Historic buildings</i>	7
	<i>Historic Landscape Types</i>	8
	<i>Evolution of the baseline</i>	9
11.4	Design basis and activities	9
	<i>Construction</i>	9
	<i>Operation</i>	10
	<i>Decommissioning</i>	11
11.5	Assessment of effects.....	11
	<i>Construction</i>	11
	<i>Operation</i>	12
	<i>Decommissioning</i>	12
11.6	Additional mitigation.....	13
	<i>Construction</i>	13
	<i>Operation</i>	14
	<i>Decommissioning</i>	14
11.7	Residual effects	15
11.8	References	16

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11 Cultural heritage

11.1 Introduction

- 11.1.1 This chapter describes the assessment of potential cultural heritage effects resulting from the construction, operation and decommissioning of the Off-Site Power Station Facilities.
- 11.1.2 Please refer to chapter B11 (cultural heritage) (Application Reference Number: 6.2.11) of this Environmental Statement for the technical basis for the assessment including a summary of legislation, policy and guidance; key points arising in consultation that have guided the cultural heritage assessment; and assessment methodologies and criteria.

11.2 Study area

- 11.2.1 This section describes the study area(s) relevant to the cultural heritage assessment for the Off-Site Power Station Facilities.
- 11.2.2 The study area for archaeological remains, historic buildings and the historic landscape was defined as the Off-Site Power Station Facilities and 200m extending in all directions from the site boundary (see figure E11-1, Application Reference Number: 6.5.27). Given that the majority of the Off-Site Power Station Facilities has been previously developed, this size of study area was used as it provided a suitable corpus of information to inform the assessment of the value of heritage assets and also was in proportion to the potential effects which may result from the Off-Site Power Station Facilities.
- 11.2.3 The Zone of Theoretical Visibility (ZTV), data from Cadw on designated heritage assets (issued March 2017), online Ordnance Survey mapping, aerial photography and site inspections, were used to inform an assessment of potential effects on heritage assets within 2km of the Off-Site Power Station Facilities, but outside the study area, which could be affected by the construction, operation and decommissioning of the Off-Site Power Station Facilities. A 2km area was used as while the ZTV extends up to 6km from the Off-Site Power Station Facilities, visual effects would diminish with distance, and therefore there are unlikely to be any significant effects on the setting of designated assets beyond 2km. For more information on this and the ZTV, please refer to chapter E10 (landscape and visual) (Application Reference Number: 6.5.10). This approach aligns with Stage 1 of the guidance provided by the *Setting of Historic Assets in Wales* [RD1]. Significant noise effects beyond 600m are also considered unlikely (please refer to chapter E6 (noise and vibration) (Application Reference Number: 6.5.6), and therefore designated heritage assets which may be affected by changes in noise would also fall within the 200m study area or the wider 2km area.
- 11.2.4 The results of this assessment are presented in table E11-1. Potential effects on two designated heritage assets (St Maethlu's Church (Asset 176; Grade II* Listed Building) and Carreglwyd Grade II* Registered Park and Garden (Historic Landscape Type (HLT) 1)), located outside the study area

but within the ZTV, were identified, and these designated heritage assets have been included in the baseline. As detailed in table E11-1, no effects were predicted on an additional five designated heritage assets, and these were not included in the baseline or discussed in this chapter.

Table E11-1 Designated assets outside the study area and within 2km of the Off-Site Power Station Facilities which lie inside the ZTV

Designation reference	Asset Name	Designation	Assessment
AN083	Capel Soar Standing Stone	Scheduled Monument	While the Off-Site Power Station Facilities would be visible in restricted distant views to the north from this asset, these views would be limited by existing buildings including Siop Soar, mature trees and topography and would not affect the way setting contributes to the ways in which the asset is understood, appreciated or experienced. No effect on this heritage asset is predicted and therefore it has been scoped out of further assessment.
LB5301	St Maethlu's Church	Grade II* Listed Building	This heritage asset is intervisible with the Off-Site Power Station Facilities and has therefore been included in the baseline for further assessment.
LB24793	Ebenezer Chapel Including Chapel House and Hall	Grade II Listed Building	No intervisibility with the Off-Site Power Station Facilities due to existing buildings in Llanfaethlu. No effect on this heritage asset is predicted and therefore it has been scoped out of further assessment.
LB24794	Black Lion Inn	Grade II Listed Building	While the Off-Site Power Station Facilities would be visible in restricted distant views to the north from this asset, these views would be limited by existing farm buildings, mature trees and topography and would not affect the way setting contributes to the ways in which the asset is understood, appreciated or experienced. No effect on this heritage asset is predicted and therefore it has been scoped out of further assessment.

Designation reference	Asset Name	Designation	Assessment
LB24804	Gate and Gateposts, Wall and Railings, Ebenezer Chapel	Grade II Listed Building	No intervisibility with the Off-Site Power Station Facilities due to existing buildings in Llanfaethlu. No effect on this heritage asset is predicted and therefore it has been scoped out of further assessment.
LB24814	Siop Soar	Grade II Listed Building	While the Off-Site Power Station Facilities would be visible -in restricted distant views to the north from this asset, these views would be limited by existing farm buildings, mature trees and topography and would not affect the way setting contributes to the ways in which the asset is understood, appreciated or experienced. No effect on this heritage asset is predicted and therefore it has been scoped out of further assessment.
GD43	Carreglwyd Registered Park and Garden	Grade II* Registered Park and Garden	While the Off-Site Power Station Facilities would not be visible from the designed landscape itself, it would be visible from some views from the southern edge of the Essential Setting of Carreglwyd Registered Park and Garden. Therefore, this heritage asset has been included in the baseline for further assessment.

11.3 Baseline environment

11.3.1 This section provides a summary of the baseline conditions for cultural heritage within the study area described in section 11.2.

11.3.2 The cultural heritage baseline environment has been established through:

- a cultural heritage desk-based survey for the A5025 Off-line Highway Improvements (appendix G11-1 (A5025 On-line and Off-line Highway Improvements, Anglesey: Cultural Heritage Desk-Based Survey and Walk-Over Survey Report) (Application Reference Number: 6.7.42) of this Environmental Statement);
- a geophysical survey for the A5025 Off-line Highway Improvements (appendix G11-2 (Wylfa Newydd A5025 Highway Improvements, Anglesey Geophysical Survey) (Application Reference Number: 6.7.43) of this Environmental Statement);
- the results of the trial trenching for the A5025 Off-line Highway Improvements (appendix G11-3 (Wylfa Newydd: A5025 Highway Improvements, Isle of Anglesey: Evaluation report) (Application Reference Number: 6.7.44) of this Environmental Statement); and
- a walkover survey and site inspections undertaken on 27 January 2016.

11.3.3 The desk-based survey for the A5025 Off-line Highway Improvements (appendix G11-1 (Application Reference Number: 6.7.42) of this Environmental Statement) encompasses the Off-Site Power Station Facilities and the majority of the study area and was therefore used as a source of baseline information. For the small area of the study area outside the desk-based survey for the A5025 Off-line Highway Improvements, available on-line sources were consulted and no additional heritage assets identified. The geophysical survey and trial trenching for the A5025 Off-line Highway Improvements (appendices G11-2 and G11-3 (Application Reference Numbers: 6.7.43 and 6.7.44) of this Environmental Statement) lie adjacent to the Off-Site Power Station Facilities and partly within its study area, and therefore were also valuable sources of baseline information. These sources were considered to provide a sufficient basis for the assessment of the value of heritage assets within the study area for the Off-Site Power Station Facilities.

11.3.4 From these sources a total of 27 heritage assets are considered as part of the cultural heritage baseline for the Off-Site Power Station Facilities, comprising 14 archaeological remains, 11 historic buildings, and two HLTs. The locations of heritage assets are shown on figure E11-1 (Application Reference Number: 6.5.27), and further information on these heritage assets can be found in appendix E11-1 (gazetteer of heritage assets) (Application Reference Number: 6.5.24). A summary of the value of the 27 heritage assets considered is presented in table E11-2.

Table E11-2 Summary of the value of heritage assets

Subtopic	High	Medium	Low	Negligible
Archaeological remains	0	2	7	5
Historic buildings	1	1	4	5
Historic Landscape Types	1	1	0	0
TOTAL	2	4	11	10

- 11.3.5 Please note that as the numbering system for heritage assets has been retained from a desk-based cultural heritage survey for the A5025 Off-line Highway Improvements (appendix G11-1 (Application Reference Number: 6.7.42)): they do not start at 1. The location of all heritage assets are shown on figure E11-1 (Application Reference Number: 6.5.27) and more detailed information on them is presented in appendix E11-1 (Application Reference Number: 6.5.24).

Archaeological remains

Archaeological remains of high value

- 11.3.6 No archaeological remains assessed to be of high value have been identified within the study area.

Archaeological remains of medium value

- 11.3.7 Llanfaethlu Multi-period Site (Asset 404) provides evidence of prehistoric settlement activity characterised by linear features, pits and postholes identified during archaeological trial trenching for the A5025 Off-line Highway Improvements (appendix G11-3 (Application Reference Number: 6.7.44) of this Environmental Statement). Some of these features contained Neolithic pottery and flint finds. Later prehistoric activity dated to the Iron Age was also identified. Due to its potential contribution to research objectives related to prehistoric settlement [RD2; RD3; RD4], this heritage asset has been assessed to be of medium value.
- 11.3.8 Burial Ground, Hen Shop (Asset 186) comprised at least four stone-lined burials, which were excavated following their accidental discovery in 1894. While the 1894 excavations will have disturbed this heritage asset, it may retain further buried archaeological remains which could contribute to the research objectives for early medieval archaeology [RD5], and therefore this heritage asset has been assessed to be of medium value.

Archaeological remains of low value

- 11.3.9 Archaeological remains of low value include possible linear features and pits (Asset 355) identified by geophysical survey and the probable terminus of a gully identified during an archaeological watching brief (Asset 372). Archaeological remains identified by archaeological trial trenching include those associated with post-medieval agricultural activity comprising a linear feature (Asset 400), a curvilinear feature and parallel boundary ditches (Assets 401 and 402) and an undated pit (Asset 403). While these heritage

assets are not rare, they do provide evidence of possible prehistoric settlement and post-medieval land use and have been assessed to be of low value.

- 11.3.10 Identified by geophysical survey, Asset 354 is interpreted as the possible remains of a field system comprising ditch-like features. While such heritage assets are not rare, Asset 354 is a different alignment to, and therefore may pre-date, the existing field pattern and therefore has been assessed to be of low value.

Archaeological remains of negligible value

- 11.3.11 Two quarries (Assets 181 and 183) are first shown on historical mapping dating from 1889 and a grassed-over trackway (Asset 180) may have been used to provide access to them. As heritage assets of this date and type are not rare, they have been assessed to be of negligible value.
- 11.3.12 Building (Site of) South-east of Bryn Maethlu (Asset 192) and Ruined Building, West of Berth (Site of) (Asset 187) are the sites of unnamed farm buildings, both of which are shown on historical mapping dating to 1840. Heritage assets of this type are not rare and these are poorly preserved, and as such they have been assessed to be of negligible value.

Potential for unknown archaeological remains

- 11.3.13 The majority of the Off-Site Power Station Facilities has already been developed, and this is likely to have removed any archaeological remains that may have been present. However, buried archaeological remains have been identified by trial trenching adjacent to the Off-Site Power Station Facilities (see appendix G11-3 (Application Reference Number: 6.7.44)), and further evidence of the potential for the presence of unknown archaeological remains is provided by the recent discoveries at Dŵr Cymru Welsh Water site at Llanfaethlu which consisted of prehistoric habitation characterised by hearths, post holes, pits, gullies and linear features and post-medieval ditches [RD6]. Therefore, the potential for unknown archaeological remains within previously undisturbed areas of the Off-Site Power Station Facilities has been assessed to be high.

Historic buildings

Historic buildings of high value

- 11.3.14 St Maethlu's Church (Asset 176) is a Grade II* Listed Building which dates from the 15th century with later 19th century additions (see figure E11-1 for its location, Application Reference Number: 6.5.27). In consideration of its designation, and as an unusual example of a small rural church retaining original 15th century fabric and details including memorials, some of which are of 16th and 17th century date, this heritage asset has been assessed to be of high value.

Historic buildings of medium value

11.3.15 The Disused Limekiln at Carreglwyd (Asset 182) is a well-preserved example of an 18th century limekiln. Due to its designation as a Grade II Listed Building, and as a well-preserved example of its type, it has been assessed to be of medium value.

Historic buildings of low value

11.3.16 Bodhelen Farmhouse (Asset 189) and Bodhelen Outbuildings (Asset 190) are 19th century buildings that have been modernised, while Cae'r-bryniau and outbuildings (Asset 163) and Hen Shop (Asset 185) are farmsteads with associated outbuildings. Due to their modernisation, Assets 189 and 190 have been assessed to be of low value. Assets 163 and 185 are examples of common 19th century farmsteads and have also been assessed to be of low value.

Historic buildings of negligible value

11.3.17 Ty'n-y-buarth (Asset 178), Ty'n-yr-ardd (Asset 179), Numbers 1 and 2 Pen-y-craig (Assets 184) and Pant (Asset 188) are all common domestic building types, which have been modernised and extended and as such, they have been assessed to be of negligible value.

11.3.18 A Milk Churn Stand located to south-west of Hafod-y-Graig (Asset 191) is typical of the roadside platforms for farmers to leave their milk churns ready for collection by dairies. This is a common roadside feature in the area and has been assessed to be of negligible value.

Historic Landscape Types

Historic Landscape Types of high value

11.3.19 Carreglwyd Grade II* Registered Park and Garden (HLT 1), was first established in the 18th century, but the present layout is predominantly 19th century. The designed landscape lies largely within an enclosed valley and includes informal ornamental wooded grounds focused on a semi-artificial lake, open grazed enclosed park and a walled garden. There are Significant Views identified in the *Register of Parks and Gardens of Special Historic Interest in Wales* [RD7] that are from Carreglwyd House east across a largely silted up lake and from the western wooded ridge, westwards towards the sea. In consideration of its designation and as a good example of an almost unchanged 19th century designed landscape, this HLT has been assessed to be of high value.

Historic Landscape Types of medium value

11.3.20 Fieldscape, North-west Mon (HLT 2) comprises enclosed fields resulting from the varying processes of enclosure and enlargement undertaken from the 18th to the 20th century. While fields are bounded by historic drystone walls, banks, cloddiau and hedgerows, the legibility of historic field boundary patterns has been eroded by the establishment of fencing and hedgerows

during the 20th century. LANDMAP identifies HLT 2 to be of regional value and therefore this HLT has been assessed to be of medium value.

Historic Landscape Types of low and negligible value

11.3.21 No HLTs of low or negligible value have been identified within the cultural heritage study area.

Evolution of the baseline

11.3.22 Long-term changes to the cultural heritage baseline are likely to result from changes in climate which could remove, or result in changes to the form of existing heritage assets through erosion (which could also lead to new heritage assets being exposed). This could result in changes to the fabric of historic buildings through adaptations to meet climatic change. In addition, changes in crop, stock or species viability, could result in removal of, or changes to, heritage assets.

11.4 Design basis and activities

11.4.1 This section sets out the design basis for this assessment of effects. It sets out where any assumptions have been made to enable the assessment to be carried out at this stage in the evolution of the design. This section also identifies the embedded and good practice mitigation that will be adopted to reduce adverse effects as inherent design features or by implementation of standard industry good working practice.

11.4.2 As described in chapter E1 (proposed development) (Application Reference Number: 6.5.1), the application for development consent is based on a parameter approach. The assessment described within this chapter has taken into consideration the flexibility afforded by the parameters. A worst case scenario has therefore been assessed from a cultural heritage perspective within the parameters described in chapter E1 (Application Reference Number: 6.5.1).

Construction

Basis of assessment and assumptions

11.4.3 The majority of the Off-Site Power Station Facilities has already been developed, and this is likely to have removed any archaeological remains that may have been present. Construction activities, especially the removal of topsoil, have the potential to remove any unknown archaeological remains that may be present within previously undisturbed areas of the Off-Site Power Station Facilities. It is assumed that unknown remains, if present, are of the same nature and value as those identified in the adjacent areas (please refer to section 11.3).

11.4.4 The potential loss of information resulting from the removal of archaeological remains would affect our understanding of Welsh culture. Further information on the effects on Welsh culture is presented in the Welsh Language Impact Assessment (Application Reference Number: 8.21).

Embedded mitigation

11.4.5 No embedded mitigation during construction is required for cultural heritage.

Good practice mitigation

11.4.6 While no good practice mitigation has been identified specifically for effects on heritage assets during construction, good practice mitigation as set out in section 8 of the Wylfa Newydd Code of Construction Practice (CoCP) (Application Reference Number: 8.6) and section 8 of the Off-Site Power Station Facilities sub-CoCP (Application Reference Number: 8.9) would reduce noise effects on the setting of heritage assets.

Operation

Basis of assessment and assumptions

11.4.7 The presence of the Off-Site Power Station Facilities during operation has the potential to have a continued effect on the setting of heritage assets.

Embedded mitigation

11.4.8 The following embedded mitigation, which would reduce effects on the setting of heritage assets during operation relevant to cultural heritage, is proposed:

- new soft landscaping in various locations around the perimeter of the site, including hedgerow, shrub and tree planting, where this does not conflict with operational and security requirements would help reduce the visual intrusion into the setting of heritage assets and integrate the Off-Site Power Station Facilities into the surrounding landscape;
- retention of boundary features of the site retaining some of the existing landscape character; and
- appropriate architectural design, including scale, height, building massing and choice of building finishes to ensure that the Off-Site Power Station Facilities are in keeping with the character of their surroundings as far as is practicable.

11.4.9 Embedded mitigation is set out in the relevant Works Plans (Application Reference Number: 2.3), volume 3, appendix 1-3 (Associated Developments and Off-Site Power Station Facilities) of the Design and Access Statement (Application Reference Number: 8.2.3), and the Off-Site Power Station Facilities sub-CoCP (Application Reference Number: 8.9) being secured through Development Consent Order requirements.

Good practice mitigation

11.4.10 No good practice mitigation is required for operation.

Decommissioning

Basis of assessment and assumptions

11.4.11 The Off-Site Power Station Facilities would be removed at the same time as the decommissioning of the Power Station.

Embedded mitigation

11.4.12 No embedded mitigation is required for cultural heritage.

Good practice mitigation

11.4.13 While no good practice mitigation has been identified specifically for effects on heritage assets, during decommissioning good practice mitigation would reduce noise effects on the setting of heritage assets.

11.5 Assessment of effects

11.5.1 This section presents the findings of the assessment of effects associated with the construction, operation and decommissioning of the Off-Site Power Station Facilities. As none of these effects are likely to be significant a short summary is provided below. Please refer to appendix E11-2 (effects on heritage assets) (Application Reference Number: 6.5.25) for a full description and the detailed assessment of effects.

Construction

Archaeological remains

11.5.2 No effects on the 14 archaeological remains identified within the study area are predicted to result from the construction of the Off-Site Power Station Facilities.

Historic buildings

11.5.3 No effects on any historic buildings have been assessed to be of moderate adverse significance or above. An effect on one historic building (St Maethlu's Church (Asset 176)) has been assessed to be of minor adverse significance and effects on five historic buildings have been assessed to be of negligible adverse significance. These effects are not discussed below but are presented in appendix E11-2 (Application Reference Number: 6.5.25). No effects are predicted on the five remaining historic building.

Historic Landscape Types

11.5.4 No effects on any HLTs have been assessed to be of moderate adverse significance or above. Effects on two HLT (Carreglwyd Grade II* Registered Park and Garden (HLT 1) and Fieldscape, North-west Mon (HLT 2)) have been assessed to be of negligible adverse significance. These effects are not discussed below but are presented in appendix E11-2 (Application Reference Number: 6.5.25).

Operation

Archaeological remains

- 11.5.5 No effects on the 14 archaeological remains identified within the study area are predicted as a result of operation of the Off-Site Power Station Facilities.

Historic buildings

- 11.5.6 No effects on historic buildings resulting from operation of the Off-Site Power Station Facilities have been assessed to be of moderate adverse significance or above. Effects of negligible adverse significance are predicted for six historic building. An assessment of these effects is presented in appendix E11-2 (Application Reference Number: 6.5.25). No effects are predicted on the five remaining historic building.

Historic Landscape Types

- 11.5.7 No effects on any HLTs have been assessed to be of moderate adverse significance or above. An effect on one HLT (Carreglwyd Grade II* Registered Park and Garden (HLT 1)) has been assessed to be of negligible adverse significance. This effect is not discussed below but is presented in appendix E11-2 (Application Reference Number: 6.5.25). No effect is predicted on the one remaining HLT.

Decommissioning

Archaeological remains

- 11.5.8 No effects on the 14 archaeological remains identified within the study area are predicted as a result of decommissioning of the Off-Site Power Station Facilities.

Historic buildings

- 11.5.9 No effects on any historic buildings have been assessed to be of moderate adverse or above. An effect on one historic building (St Maethlu's Church (Asset 176)) has been assessed to be of minor adverse significance and effects on five historic buildings have been assessed to be of negligible adverse significance. These effects are not discussed below but are presented in appendix E11-2 (Application Reference Number: 6.5.25). No effects are predicted on the five remaining historic buildings.

Historic Landscape Types

- 11.5.10 No effects on any HLTs have been assessed to be of moderate adverse significance or above. An effect on one HLT (Carreglwyd Grade II* Registered Park and Garden (HLT 1)) has been assessed to be of negligible adverse significance. This effect is not discussed below but is presented in appendix E11-2 (Application Reference Number: 6.5.25). No effect is predicted on the one remaining HLT.

11.6 Additional mitigation

- 11.6.1 In accordance with chapter B1 (introduction to the assessment process) (Application Reference Number: 6.2.1) of this Environmental Statement, embedded and good practice mitigation measures relevant to cultural heritage were taken into account when determining the 'pre-mitigation' significance of effects. These are detailed in the design basis and activities section of this chapter.
- 11.6.2 Additional mitigation measures would be implemented to address potential significant effects identified in the assessment of effects section. These additional mitigation measures are summarised in table E11-3 for construction. No additional mitigation measures are proposed for operation and decommissioning.

Construction

Archaeological remains

- 11.6.3 There is the potential that any unknown archaeological remains that may be present within previously undisturbed areas of the Off-Site Power Station Facilities would be removed by construction. Effects on any such archaeological remains that may be present would be mitigated through the development of an archaeological mitigation strategy which would be developed in consultation with relevant stakeholders, to undertake a series of mitigation works which could potentially include targeted archaeological watching brief, targeted excavation and targeted strip map and sampling (table E11-3).
- 11.6.4 The mitigation works identified in the archaeological mitigation strategy would be undertaken in accordance with relevant guidance provided by the Chartered Institute for Archaeologists (e.g. [RD8]) and Written Schemes of Investigation which would be agreed with Gwynedd Archaeological Planning Service (GAPS). All archaeological recording would include a programme of assessment, reporting, analysis, publication and dissemination commensurate with the value of the archaeological remains removed, submission of reports to the Historic Environment Record and National Monument Record of Wales, and the preparation of an ordered archive which would be submitted to an appropriate repository.

Historic buildings

- 11.6.5 No additional mitigation for historic buildings is required for the construction of the Off-Site Power Station Facilities.

Historic Landscape Types

- 11.6.6 A photographic survey will be undertaken (table E11-3) to record the current condition of Fieldscape, North-west Mon (HLT 2). Photographic survey would be undertaken in accordance with relevant best practice guidance (e.g. [RD9]; [RD10]) and a Written Scheme of Investigation which would be agreed with GAPS. Photographic survey would include the preparation and

submission of reports to the Historic Environment Record and National Monument Record of Wales and the preparation of an ordered archive which would be submitted to an appropriate repository.

- 11.6.7 A summary of proposed additional mitigation measures for cultural heritage is presented in table E11-3. These measures would be secured through inclusion in section 12 of the Wylfa Newydd CoCP (Application Reference Number: 8.6) and section 12 of the Off-Site Power Station Facilities sub-CoCP (Application Reference Number: 8.9), both being secured through Development Consent Order requirements.

Table E11-3 Additional mitigation measures – construction

Additional mitigation measures	Objective	Achievement criteria and reporting requirements
Development of an archaeological mitigation strategy which would be developed in consultation with relevant stakeholders, to undertake a series of mitigation works which could potentially include targeted archaeological watching brief, targeted excavation and targeted strip map and sampling	To make record of any unknown archaeological remains prior to their removal	Undertaking the archaeological work(s) identified in the agreed archaeological mitigation strategy, dissemination of results, submission of an ordered archive to an appropriate repository
Photographic survey	To make record of any of the historic landscape elements of Fieldscape, North-west Mon (HLT 2) prior to their removal	Completion of reporting, dissemination of results, submission of an ordered archive to an appropriate repository

Operation

- 11.6.8 No additional mitigation for archaeological remains, historic buildings or HLTs is required for the operation of the Off-Site Power Station Facilities.

Decommissioning

- 11.6.9 No additional mitigation for archaeological remains, historic buildings or HLTs is required for the decommissioning of the Off-Site Power Station Facilities.

11.7 Residual effects

- 11.7.1 This section describes the residual effects having taken into account the embedded, good practice and additional mitigation described above. A summary of the residual effects and their significance for archaeological remains, historic buildings and HLTs is provided in appendix E11-2 (Application Reference Number: 6.5.25).
- 11.7.2 After mitigation, no significant effects on any known or unknown archaeological remains are predicted.
- 11.7.3 The residual significance of effects during construction and decommissioning has been assessed to be minor adverse for one historic building and negligible adverse for five others. During operation, the significance of residual effect has been assessed to be negligible adverse for six historic buildings. None of the residual effects on historic buildings would be significant.
- 11.7.4 The residual significance of effects during construction has been assessed to be negligible adverse for two HLTs. The residual significance of effects during operation and decommissioning has been assessed to be negligible adverse for one HLT. None of the residual effects on HLTs would be significant.

11.8 References

Table E11-4 Schedule of references

ID	Reference
RD1	Welsh Government. 2017. <i>Setting of Historic Assets in Wales</i> . [Online]. [Accessed: 11 July 2017]. Available from: http://cadw.gov.wales/docs/cadw/publications/historicenvironment/20170531Setting%20of%20Historic%20Assets%20in%20Wales%2026918%20EN.pdf
RD2	Anon. 2014. <i>A Research Framework for the Archaeology of Wales, Later Bronze Age and Iron Age</i> . [Online]. [Accessed: 21 January 2016]. Available from: http://www.archaeoleg.org.uk/pdf/bronzeandiron/Version%2001%20Later%20Bronze%20Age%20and%20Iron%20Age.pdf
RD3	Longley, D. 2003. <i>A Research Framework for the archaeology of Wales, Northwest Wales – Later Prehistoric</i> . [Online]. [Accessed: 12 January 2016]. Available from: http://www.archaeoleg.org.uk/pdf/bronzeandiron/REGIONAL%20SEMINAR%20NW%20WALES%20LATER%20BRONZE%20AGE%20AND%20IRON%20AGE.pdf
RD4	Lynch, F. 2011. <i>A Research Framework for the Archaeology of Wales, Neolithic and Earlier Bronze Age</i> . [Online]. [Accessed: 2 March 2016]. Available from: http://www.archaeoleg.org.uk/pdf/neolithic/version2neolithicanearlybronze.pdf
RD5	Edwards, N. 2011. <i>A Research Framework for the archaeology of Wales, Northwest Wales – Early Medieval</i> . [Online]. [Accessed: 12 January 2016]. Available from: http://www.archaeoleg.org.uk/pdf/earlymed2011.pdf
RD6	Gwynedd Archaeological Trust, 2016. <i>DCWW Llanfaethlu Waste Water Treatment Works Archaeological Mitigation</i> . GAT Report No. 1382. [Online]. [Accessed: 19 July 2017]. Available from: https://walesher1974.org/her/groups/GAT/media/GAT_Reports/GATreport_1382.pdf
RD7	Cadw. 1998. <i>Register of Parks and Gardens of Special Historic Interest in Wales</i> . Cadw/ICOMOS.
RD8	Chartered Institute for Archaeologists. 2014. <i>Standard and guidance for archaeological excavation</i> . [Online]. [Accessed: 19 April 2016]. Available from: http://www.archaeologists.net/sites/default/files/CIfAS&GExcavation.pdf
RD9	Historic England. 2017. <i>Understanding the Archaeology of Landscapes: A guide to good recording practice (Second Edition)</i> . Swindon: Historic England.

ID	Reference
RD10	Gwynedd Archaeological Planning Service (GAPS). 2015. <i>Guidance for applicants undertaking general photographic surveys for planning purposes</i> . [Online]. [Accessed: 11 November 2016]. Available from: http://www.heneb.co.uk/newimages/photographicsurvey.pdf

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