



Wylfa Newydd Project

6.1.1 ES Volume A - Introduction to the project and approach to the EIA A1 - Introduction

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1 Introduction

1.1 Introduction

- 1.1.1 This document is an Environmental Statement, which reports the findings of an Environmental Impact Assessment (EIA). This Environmental Statement supports the following applications for the new nuclear power station, known as Wylfa Newydd:
- the application for development consent for the Wylfa Newydd Development Consent Order (DCO) Project (as described in paragraph 1.3.1); and
 - the application for a Marine Licence for the Licensable Marine Activities (as described in paragraph 1.3.9).
- 1.1.2 In this Environmental Statement, the term Wylfa Newydd Project is used to refer to all the works and activities comprised in the Wylfa Newydd DCO Project (to be consented by the DCO) and the Licensable Marine Activities (to be consented by the Marine Licence). It does not for the purposes of this Environmental Statement include the A5025 On-line Highway Improvements (as described in paragraphs 1.2.5 to 1.2.7).
- 1.1.3 The Licensable Marine Activities comprise the Marine Works and the Deep Disposal. The Marine Works are also part of the Wylfa Newydd DCO Project but the Deep Disposal is not. Where the Environmental Statement also includes an assessment of the Deep Disposal (for the purposes of the Marine Licence) this is specifically noted in the relevant assessment chapters including D11 (cultural heritage) (Application Reference Number: 6.4.11), D12 (coastal processes and coastal geomorphology) (Application Reference Number: 6.4.12), D13 (the marine environment) (Application Reference Number: 6.4.13) and D15 (shipping and navigation) (Application Reference Number: 6.4.15). In addition, the Marine Signposting Report [RD1] accompanying the Marine Licence application identifies sections of this Environmental Statement which are relevant to the Marine Licence.

1.2 Background

The need for low carbon energy

- 1.2.1 The UK Government is committed to meeting its legally binding target under the Climate Change Act 2008 to cut greenhouse gas emissions by at least 80% by 2050, compared to 1990 levels. As a low carbon source of energy, nuclear power has an important role to play in the diversification and decarbonisation of electricity demand. Nuclear power can help address the challenge of maintaining secure energy supplies for the UK, whilst also tackling the global threat of climate change and meeting greenhouse gas emissions reduction targets.

The role of Horizon

- 1.2.2 Horizon Nuclear Power Wylfa Limited (Horizon) is a UK energy company developing a new generation of nuclear power stations to help meet the UK's need for stable and sustainable low carbon energy. Horizon's ultimate parent company is Hitachi Ltd., a Japanese corporation and the parent company of the multi-national Hitachi group of companies. Horizon is part of the Horizon Nuclear Power Limited group of companies and has premises in Gloucestershire and a site office on Anglesey.
- 1.2.3 Building on its core values of safety, courage, integrity, collaboration and inspiration, Horizon's vision is as follows:
- “We believe there is a compelling requirement for new nuclear power in the UK to help tackle the vital and complex challenge of delivering a sustainable energy future. As part of this vision Horizon will deliver secure affordable, low carbon energy for present and future generations” [RD2].
- 1.2.4 Land adjacent to the Existing Power Station at Wylfa Head, west of Cemaes on the north coast of Anglesey, is identified by the UK Government in the *Overarching National Policy Statement for Energy (EN-1)* (NPS EN-1) [RD2] and *National Policy Statement for Nuclear Power Generation (EN-6)* (NPS EN-6) [RD3] as potentially suitable for the construction of a new nuclear power station. Horizon proposes to construct and operate a new nuclear power station, known as Wylfa Newydd, on this land and adjacent land, referred to as the Wylfa Newydd Development Area (WNTA). The Power Station would have a nominal gross electrical capacity of 3GWe (3,000MWe), enough power for around five and half million homes.

Consents required

- 1.2.5 Under section 15 of the Planning Act, generating stations that are located in Wales and have a capacity of more than 50MW are classified as Nationally Significant Infrastructure Projects (NSIPs), and require an application for development consent to be made under that Act. The developer must apply for a DCO, which may be granted by the relevant Secretary of State.
- 1.2.6 The DCO process requires an EIA of the NSIP, the findings of which must be reported in an Environmental Statement. Chapter A5 (overarching environmental legislation, policy and guidance) of this Environmental Statement (Application Reference Number: 6.1.5) provides more information on the legislative requirements of relevance to this EIA. The scope of the EIA reported in this Environmental Statement has been informed by a Scoping Opinion provided by the Planning Inspectorate. The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (the 'EIA Infrastructure Regulations 2017'), came into force on the 16th May of 2017. However, the Infrastructure Planning (Environmental Impact Assessment (EIA) Regulations 2009 (the 'EIA Infrastructure Regulations 2009') continue to apply to any application for development consent where the Secretary of State has been requested to adopt a Scoping Opinion (as defined in the 2009 Regulations) prior to this date. The Scoping Opinion was requested prior to the 16th of May 2017 and the Wylfa Newydd Project is therefore subject to the EIA

Infrastructure Regulations 2009. Nevertheless, the EIA has been undertaken taking into account the additional provisions of the EIA Infrastructure Regulations 2017. Further information on the scoping process followed for the Project is presented in chapter A6 (EIA Scoping Report and Addendum) (Application Reference Number: 6.1.6).

- 1.2.7 Horizon will also require a Marine Licence. This Environmental Statement contains the EIA information required under The Marine Works (Environmental Impact Assessment) Regulations 2007 for the Marine Licence. The effects on the marine environment are reported in chapter D13 (Application Reference Number: 6.4.13) and in the cumulative effects assessments in volume I (cumulative effects) (Application Reference Numbers: 6.9.1 to 6.9.5).
- 1.2.8 The Project will also require environmental permits and regulatory licences, including a Nuclear Site Licence. Environmental information required for these licences and permits is also included in this Environmental Statement.

Connection to the National Grid

- 1.2.9 The Wylfa Newydd Project requires development of complex infrastructure to connect the Power Station to the National Grid electricity transmission network. While the Wylfa Newydd Project includes works to deliver the electrical connection to the on-site National Grid sub-station, the connection from the sub-station to the National Grid electricity transmission network would be separately undertaken by National Grid, and is known as the North Wales Connection. National Grid will submit a separate application for development consent for the North Wales Connection in due course. The North Wales Connection is outside the scope of the Wylfa Newydd Project but is assessed as part of the cumulative effects assessment in volume I of this Environmental Statement (Application Reference Numbers: 6.9.1 to 6.9.5).

1.3 The Wylfa Newydd Project

- 1.3.1 Horizon is proposing to construct and operate the Wylfa Newydd Project, which comprises the Wylfa Newydd DCO Project, the Licensable Marine Activities and the Enabling Works. Each of these elements is described further below. As noted above the Licensable Marine Activities will be consented under a Marine Licence and the Wylfa Newydd DCO Project under a DCO, however there is some overlap between the two; the Marine Works (see below) will be consented under both.

Wylfa Newydd DCO Project

- 1.3.2 The Wylfa Newydd DCO Project comprises those parts of the Wylfa Newydd Project which are to be consented by a DCO, namely:
- Power Station: the proposed new nuclear power station, including two UK Advanced Boiling Water Reactors (UK ABWRs) to be supplied by Hitachi-GE Nuclear Energy Ltd., supporting facilities, buildings, plant and structures, and radioactive waste, spent fuel storage buildings and the Grid Connection;

- Other on-site development: including landscape works and planting, drainage, surface water management systems, public access works including temporary and permanent closures and diversions of public rights of way, new Power Station Access Road and internal site roads, car parking, construction compounds and temporary parking areas, laydown areas, working areas and temporary works and structures, temporary construction viewing area, diversion of utilities, perimeter and construction fencing, and electricity connections;
- Marine Works comprising:
 - Permanent Marine Works: the Cooling Water System, Marine Off-Loading Facility, breakwater structures, shore protection works, surface water drainage outfalls, waste water effluent outfall (and associated drainage of surface water and waste water effluent to the sea), fish recovery and return system, fish deterrent system, navigation aids and Dredging;
 - Temporary Marine Works: temporary cofferdams, a temporary access ramp, navigation aids, temporary outfalls and a temporary barge berth;
- Off-Site Power Station Facilities: comprising the Alternative Emergency Control Centre, Environmental Survey Laboratory and a Mobile Emergency Equipment Garage;
- Associated Development: the Site Campus within the Wylfa Newydd Development Area; temporary Park and Ride facility at Dalar Hir for construction workers (Park and Ride); temporary Logistics Centre at Parc Cybi (Logistics Centre); A5025 Off-line Highway Improvements; and wetland habitat creation and enhancement works at Ty du, Cors Gwawr and Cae Canol-dydd.

1.3.3 An overview of the Wylfa Newydd DCO Project and a brief description of the various project development components are presented in chapter A2 (project overview and introduction to the developments) (Application Reference Number: 6.1.2). Figure A1-1 (Application Reference Number: 6.1.10) shows the locations on Anglesey of the various project components that make up the Wylfa Newydd DCO Project. A full description of the Wylfa Newydd Project can be found in chapter A2 (Application Reference Number: 6.1.2) and the proposed development chapters for the WNDA Development (D1, Application Reference Number: 6.4.1), Off-Site Power Station Facilities: AECC, ESL and MEEG (E1, Application Reference Number: 6.5.1), Park and Ride (F1, Application Reference Number: 6.6.1), A5025 Off-line Highway Improvement (G1, Application Reference number: 6.7.1) and Logistics Centre (H1, Application Reference Number: 6.8.1).

1.3.4 The following terms are used in this Environmental Statement when describing the geographical areas related to the Wylfa Newydd DCO Project, and are shown on figure A1-2 (Application Reference Number: 6.1.10).

- Power Station Site – the indicative area of land and sea within which the majority of the permanent Power Station, Marine Works and other on-site development would be situated.
- Wylfa Newydd Development Area – the indicative areas of land and sea including the Power Station Site and the surrounding areas that would be used for construction and operation of the Power Station, the Marine Works, the Site Campus and other on-site development. This area is representative of the maximum area that would be physically affected by Power Station Main Construction activities and used to form the setting and features of the operational Power Station. Elements of the Wylfa Newydd DCO Project that are located within the Wylfa Newydd Development Area are termed WYDA Development.
- Ecology mitigation areas comprising a Notable Wildlife Enhancement Site and a Reptile Receptor Site which are contiguous with the Wylfa Newydd Development Area boundary. The ecology mitigation areas comprise approximately 24 hectares, while the Wylfa Newydd Development Area comprises approximately 409 hectares, resulting in a total of 433 hectares within the Order Limits at this location.
- Wylfa NPS Site – the Power Station would be located on a site identified by the government through NPS EN-6, referred to as the Wylfa NPS Site (see chapter A2 (Application Reference Number: 6.1.2) for further details). The Wylfa NPS Site is slightly smaller than the Wylfa Newydd Development Area.
- Off-site – the areas of land needed for the Wylfa Newydd Project that fall outside of the Wylfa Newydd Development Area. Components that would be off-site include most of the Associated Development and the Off-Site Power Station Facilities and the Ecological Compensation Sites. It should be noted that although the ecology mitigation areas are also outside the Wylfa Newydd Development Area, for the purposes of assessment they have been considered with the Wylfa Newydd Development Area as they comprise adjacent areas.

Enabling Works

- 1.3.5 The Enabling Works comprise the Site Preparation and Clearance Proposals (SPC Proposals) and the A5025 On-line Highway Improvements.
- 1.3.6 Horizon has submitted applications for planning permission for the Enabling Works under the Town and Country Planning Act 1990 to the Isle of Anglesey County Council. The application for the SPC Proposals includes an Environmental Statement that reports the findings of the EIA of the SPC Proposals. In order to maintain flexibility in the consenting process for the Wylfa Newydd DCO Project, the SPC Proposals have also been included in the application for development consent. The environmental effects of the SPC Proposals have been included within the assessment of the construction phase in this Environmental Statement.

- 1.3.7 The A5025 On-line Highway Improvements are not part of the application for development consent, and are therefore excluded from the scope of the EIA reported in this Environmental Statement. The cumulative effects assessment reported in volume I (Application Reference Numbers: 6.9.1 to 6.9.5) does, however, consider the A5025 On-line Highway Improvements.

Licensable Marine Activities

- 1.3.8 The Licensable Marine Activities comprise the Permanent Marine Works, the Temporary Marine Works, the Deep Disposal and the drainage of surface water into the sea. During the Construction phase, this includes the construction of a waste water treatment effluent outfall, and the drainage of treated sewage into the sea.

1.4 Purpose and content of this Environmental Statement

- 1.4.1 This Environmental Statement, provides a description of the likely significant effects on the environment arising from the Wylfa Newydd Project. It explains the processes followed, the assessment methods used and the mitigation measures proposed to prevent, reduce and offset any significant adverse effects.
- 1.4.2 The structure of this Environmental Statement, is presented in table A1-1. An overview of the environmental topics assessed and the issues scoped out of the assessment is provided in chapter A6 (Application Reference Number: 6.1.6).

Table A1-1 Structure of the Environmental Statement

Volume	Chapter	Description	Application Reference Number
A	A1	Introduction	6.1.1
	A2	Project overview and introduction to the development	6.1.2
	A3	Environmental context	6.1.3
	A4	Strategic alternatives	6.1.4
	A5	Overarching environmental legislation, policy and guidance	6.1.5
	A6	Environmental Impact Assessment scoping	6.1.6
	A7	Consultation with environmental stakeholders	6.1.7
B	B1	Introduction to the assessment process	6.2.1
	B2	Introduction to the environmental assessments – socio-economics	6.2.2

Volume	Chapter	Description	Application Reference Number	
	B3	Introduction to the environmental assessments – traffic and transport	6.2.3	
	B4	Introduction to the environmental assessments – public access and recreation	6.2.4	
	B5	Introduction to the environmental assessments – air quality	6.2.5	
	B6	Introduction to the environmental assessments – noise and vibration	6.2.6	
	B7	Introduction to the environmental assessments – soils and geology	6.2.7	
	B8	Introduction to the environmental assessments – surface water and groundwater	6.2.8	
	B9	Introduction to the environmental assessments – terrestrial and freshwater ecology	6.2.9	
	B10	Introduction to the environmental assessments – landscape and visual	6.2.10	
	B11	Introduction to the environmental assessments – cultural heritage	6.2.11	
	B12	Introduction to the environmental assessments – coastal processes and coastal geomorphology	6.2.12	
	B13	Introduction to the environmental assessments – the marine environment	6.2.13	
	B14	Introduction to the environmental assessments – radiological effects	6.2.14	
	B15	Introduction to the environmental assessments – shipping and navigation	6.2.15	
	B16	Introduction to the environmental assessments – waste and materials management	6.2.16	
	C	C1	Project-wide socio-economic effects	6.3.1
		C2	Project-wide traffic and transport effects	6.3.2
C3		Effects of project-wide traffic on public access and recreation	6.3.3	
C4		Effects of project-wide traffic on air quality	6.3.4	
C5		Effects of project-wide traffic on noise and vibration	6.3.5	

Volume	Chapter	Description	Application Reference Number
	C6	Project-wide waste and materials management	6.3.6
	C7	Combined effects of traffic	6.3.7
D	D1	WNDA Development – proposed development	6.4.1
	D2	WNDA Development – alternatives and design evolution	6.4.2
	D3	WNDA Development – socio-economics	6.4.3
	D4	WNDA Development – public access and recreation	6.4.4
	D5	WNDA Development – air quality	6.4.5
	D6	WNDA Development – noise and vibration	6.4.6
	D7	WNDA Development – soils and geology	6.4.7
	D8	WNDA Development – surface water and groundwater	6.4.8
	D9	WNDA Development – terrestrial and freshwater ecology	6.4.9
	D10	WNDA Development – landscape and visual	6.4.10
	D11	WNDA Development – cultural heritage	6.4.11
	D12	WNDA Development – coastal processes and coastal geomorphology	6.4.12
	D13	WNDA Development – the marine environment	6.4.13
	D14	WNDA Development – radiological effects	6.4.14
	D15	WNDA Development – shipping and navigation	6.4.15
	D16	WNDA Development – combined topic effects	6.4.16
E	E1	Off-Site Power Station Facilities – proposed development	6.5.1
	E2	Off-Site Power Station Facilities – alternatives and design evolution	6.5.2
	E3	Off-Site Power Station Facilities – socio-economics	6.5.3
	E4	Off-Site Power Station Facilities – public access and recreation	6.5.4
	E5	Off-Site Power Station Facilities – air quality	6.5.5

Volume	Chapter	Description	Application Reference Number
	E6	Off-Site Power Station Facilities – noise and vibration	6.5.6
	E7	Off-Site Power Station Facilities – soils and geology	6.5.7
	E8	Off-Site Power Station Facilities – surface water and groundwater	6.5.8
	E9	Off-Site Power Station Facilities – terrestrial and freshwater ecology	6.5.9
	E10	Off-Site Power Station Facilities – landscape and visual	6.5.10
	E11	Off-Site Power Station Facilities – cultural heritage	6.5.11
	E12	Off-Site Power Station Facilities – combined topic effects	6.5.12
F	F1	Park and Ride – proposed development	6.6.1
	F2	Park and Ride – alternatives and design evolution	6.6.2
	F3	Park and Ride – socio-economics	6.6.3
	F4	Park and Ride – public access and recreation	6.6.4
	F5	Park and Ride – air quality	6.6.5
	F6	Park and Ride – noise and vibration	6.6.6
	F7	Park and Ride – soils and geology	6.6.7
	F8	Park and Ride – surface water and groundwater	6.6.8
	F9	Park and Ride – terrestrial and freshwater ecology	6.6.9
	F10	Park and Ride – landscape and visual	6.6.10
	F11	Park and Ride – cultural heritage	6.6.11
	F12	Park and Ride – combined topic effects	6.6.12
G	G1	A5025 Off-line Highway Improvements – proposed development	6.7.1
	G2	A5025 Off-line Highway Improvements – alternatives and design evolution	6.7.2
	G3	A5025 Off-line Highway Improvements – socio-economics	6.7.3

Volume	Chapter	Description	Application Reference Number	
	G4	A5025 Off-line Highway Improvements – public access and recreation	6.7.4	
	G5	A5025 Off-line Highway Improvements – air quality	6.7.5	
	G6	A5025 Off-line Highway Improvements – noise and vibration	6.7.6	
	G7	A5025 Off-line Highway Improvements – soils and geology	6.7.7	
	G8	A5025 Off-line Highway Improvements – surface water and groundwater	6.7.8	
	G9	A5025 Off-line Highway Improvements – terrestrial and freshwater ecology	6.7.9	
	G10	A5025 Off-line Highway Improvements – landscape and visual	6.7.10	
	G11	A5025 Off-line Highway Improvements – cultural heritage	6.7.11	
	G12	A5025 Off-line Highway Improvements – combined topic effects	6.7.11	
	H	H1	Logistics Centre – proposed development	6.8.1
		H2	Logistics Centre – alternatives and design evolution	6.8.2
		H3	Logistics Centre – socio-economics	6.8.3
H4		Logistics Centre – public access and recreation	6.8.4	
H5		Logistics Centre – air quality	6.8.5	
H6		Logistics Centre – noise and vibration	6.8.6	
H7		Logistics Centre – soils and geology	6.8.7	
H8		Logistics Centre – surface water and groundwater	6.8.8	
H9		Logistics Centre – terrestrial and freshwater ecology	6.8.9	
H10		Logistics Centre – landscape and visual	6.8.10	
H11		Logistics Centre – cultural heritage	6.8.11	
H12		Logistics Centre – combined topic effects	6.8.12	
I	I1	Cumulative effects – introduction	6.9.1	

Volume	Chapter	Description	Application Reference Number
	I2	Cumulative effects – scope	6.9.2
	I3	Cumulative effects – methodology	6.9.3
	I4	Cumulative effects – intra-project cumulative effects	6.9.4
	I5	Cumulative effects – inter-project cumulative effects	6.9.5
J	J1	Environmental commitments and summary of residual effects – environmental commitments	6.10.1
	J2	Environmental commitments and summary of residual effects – summary of significant residual effects	6.10.2

- 1.4.3 Volume A (introduction to the project and approach to the EIA) (i.e. this volume) (Application Reference Numbers: 6.1.1 to 6.1.7) introduces the Environmental Statement, and assessment process, provides a description of the Wylfa Newydd Project and the surrounding environmental context, identifies strategic alternatives and summarises the consultation undertaken to date with stakeholders.
- 1.4.4 Volume B (introduction to the environmental assessments) (Application Reference Numbers: 6.2.1 to 6.2.16) contains information common to the topic assessments presented in volumes C to H (Application Reference Numbers: 6.3.1 to 6.8.11). By separating this information out into volume B (Application Reference Numbers: 6.2.1 to 6.2.16), duplication across a number of subsequent volumes has been avoided.
- 1.4.5 Volume C (project-wide effects) (Application Reference Numbers: 6.3.1 to 6.3.7) presents the assessment of those environmental effects that are more appropriately considered at a project-wide level rather than for each component development in turn. These are traffic-related effects which are assessed by means of a project-wide traffic model (including the effects on traffic and transport per se, as well as the effects of changes in traffic on air quality, on noise and on public access and recreation), as well as some aspects of socio-economics and waste and materials management which consider effects at a regional spatial scale. This is not the cumulative effects assessment, which is reported in volume I, as described below.
- 1.4.6 The assessment of project-wide effects is reported in volume C (Application Reference Numbers: 6.3.1 to 6.3.7) and the effects of the individual component developments are reported in in volumes D to H (Application Reference Numbers: 6.4.1 to 6.8.11).
- 1.4.7 Because the wetland habitat creation and enhancement works at Ty du, Cors Gwawr and Cae Canol-dydd are designed to offset potential adverse ecological effects on the Tre'r Gof SSSI, which is located within the Wylfa Newydd Development Area, the effects of those developments are reported

within volume D, in appendix D1-2 (Ecological Compensation Sites: assessment of ecological effects) (Application Reference Number: 6.4.18).

- 1.4.8 Volume I (Application Reference Numbers: 6.9.1 to 6.9.5) presents the assessment of cumulative effects. Intra-project effects are reported where receptors would be affected by more than one of the component developments within the Wylfa Newydd Project. Inter-project effects are reported where receptors would be affected by both the Wylfa Newydd Project and at least one external project.
- 1.4.9 Volume J (environmental commitments and summary of residual effects) (Application Reference Numbers: 6.10.1 and 6.10.2) summarises the environmental commitments, with a combined list of the various mitigation measures proposed in each chapter. Volume J (Application Reference Numbers: 6.10.1 and 6.10.2) also includes a table setting out the predicted significant residual effects of the Wylfa Newydd Project.
- 1.4.10 The Environmental Statement is just one of the application documents. For further information on other application documents refer to the Guide to the Application (Application Reference Number: 1.3).

1.5 Additional assessments to support the application for development consent

- 1.5.1 As well as the EIA, there are other parallel assessments that support the application for development consent. These are reported separately but cross-referred to throughout this Environmental Statement where appropriate. These assessments include but are not limited to:
- Welsh Language Impact Assessment (Application Reference Number: 8.21);
 - Health Impact Assessment (Application Reference Number: 8.19);
 - Shadow Habitats Regulations Assessment (Application Reference Number: 5.2); and
 - Equality Impact Assessment (Application Reference Number: 8.22).

Welsh Language Impact Assessment

- 1.5.2 Horizon's Welsh Language Impact Assessment (WLIA) (Application Reference Number: 8.21) is a systematic, criteria-based assessment of the likely effects of the Wylfa Newydd Project on the Welsh language and communities within the study area. The WLIA includes consideration of the various pieces of legislation, policy and guidance that have the importance of the Welsh language at their core. It has been a commitment throughout the development of the Wylfa Newydd Project to have the Welsh language as a 'golden thread' that runs throughout the application and subsequently into the construction, operational and decommissioning phases of the Wylfa Newydd Project. The WLIA is a standalone report accompanying the application for development consent.

- 1.5.3 Horizon acknowledges that the Welsh language and culture is linked to the social and cultural fabric of communities across Anglesey where the majority of the population are Welsh speaking.

Health Impact Assessment

- 1.5.4 A Health Impact Assessment (HIA) (Application Reference Number: 8.19) considers the potential health effects associated with policies, plans or projects. While HIA is not a statutory requirement, Horizon has adopted the recommendation made by the Planning Inspectorate in the 2010 Scoping Opinion of the Wylfa Newydd Project and has carried out an HIA. Horizon is also taking into account the EIA Infrastructure Regulations 2017 which, although not applicable to the Wylfa Newydd Project, make provision for the assessment of effects on human health. In carrying out an HIA, Horizon has identified potentially beneficial and adverse significant health and well-being effects of the development of the Wylfa Newydd Project; opportunities for improving health and well-being and reducing health inequalities; and mitigation opportunities. HIA follows a similar process to EIA with a structure of screening, scoping, assessment and reporting before monitoring and evaluation. In practice, once the scope has been defined, HIA takes some findings from EIA topics such as air quality, noise and vibration, socio-economics, and analyses the effects on health and well-being. The HIA is a standalone report accompanying the application for development consent.

Habitats Regulations Assessment

- 1.5.5 A Habitats Regulations Assessment (HRA) must be carried out by the competent authorities determining the applications for development consent and the Marine Licence. The Conservation of Habitats and Species Regulations 2017 require all plans or projects to be screened (stage 1 of HRA) to determine if there is likely to be a significant effect on European Designated Sites before permission can be granted. If it cannot be concluded that no likely significant effects would occur, an Appropriate Assessment (stage 2 of HRA) must be carried out by the competent authority to determine whether adverse effects on the integrity of any European Designated Sites would occur. Only after the absence of such effects has been demonstrated (or, exceptionally, if there are imperative reasons of over-riding public interest) can consent be granted. A shadow HRA (Application Reference Number: 5.2) is issued as a standalone report accompanying the applications for development consent and the Marine Licence. This report provides information that the competent authorities will use to carry out the Appropriate Assessment.

Equality Impact Assessment

- 1.5.6 Equality Impact Assessment (EqIA) is a systematic process that identifies the likely effects that a project or proposal would have on the different groups of people defined as having Protected Characteristics in the Equality Act 2010. The EqIA has been undertaken voluntarily by Horizon and forms a standalone report (Application Reference Number: 8.22) accompanying the application for development consent.

1.6 References

Table A1-2 Schedule of references

ID	Reference
RD1	Horizon Nuclear Power Ltd. 2018. Marine Licence Applications: Signposting Report for the Environmental Statement. ML-ESX-01-SPR.
RD2	Horizon. 2016. <i>Wylfa Newydd Generating Station Pre-Application Consultation Stage Two - Main Consultation Document</i> .
RD3	Department of Energy and Climate Change. 2011a. <i>Overarching National Policy Statement for Energy (EN-1)</i> . London: The Stationery Office.
RD4	Department of Energy and Climate Change. 2011b. <i>National Policy Statement for Nuclear Power Generation (EN-6)</i> . London: The Stationery Office.