

NATIONAL POLICY STATEMENT COMPLIANCE TRACKER

Drax Bioenergy with Carbon Capture and Storage

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

Regulation 5(2)(q)

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TABLE OF CONTENTS

1.	INTRODUCTION	2
2.	ADOPTED NATIONAL POLICY STATEMENTS	4
3.	DRAFT NATIONAL POLICY STATEMENTS	64
PL	LATES	
Pla	ate 1 - Extract from the CHP-R Guidance (Environment Agency, 2013)	23
TA	ABLES	
Ta	ble 1 - Adopted National Policy Statement Compliance Tracker	4
Tal	ble 2 - Draft National Policy Statement Compliance Tracker	64

1. INTRODUCTION

- 1.1.1. This National Policy Statement tracker has been prepared by WSP UK Limited on behalf of Drax Power Limited ('the Applicant') to support the application for a Development Consent Order ('DCO Application') relating to the Drax Bioenergy with Carbon Capture and Storage Project.
- 1.1.2. Under section 104 of the Planning Act 2008 ('PA2008'), National Policy Statements ('NPSs') are the primary policy framework on which the Secretary of State ('SoS') makes decisions on whether Nationally Significant Infrastructure Projects (NSIPs) should be consented. For projects such as the Proposed Scheme, they will also be considered as an important and relevant consideration where section 105 of the PA2008 applies. Compliance of the Proposed Scheme with the applicable policies within the relevant adopted NPSs is assessed in the policy appraisal table below. It is noted that references to the Infrastructure Planning Commission ('IPC') in the NPS policies referenced below have been replaced with reference to the SoS.
- 1.1.3. In this case, the relevant NPSs are the Overarching NPS for Energy ('EN-1') and the NPS for Renewable Energy Infrastructure ('EN-3'), prepared in 2011 by the Department of Energy and Climate Change ('DECC'), now BEIS.
- 1.1.4. The Government is currently undertaking a review of the existing energy NPSs to ensure they reflect current energy policy, and to ensure the planning policy framework can deliver investment in the infrastructure needed for the transition to net zero. The draft NPSs of relevance are Draft Overarching Energy NPS (EN-1) and Draft National Policy Statement for renewable energy infrastructure (EN-3), and accordingly are considered below.
- 1.1.5. The purpose of the planning policy assessment contained in Tables 1 and 2 below, is to determine whether the Proposed Scheme, as a whole, would accord with the relevant planning policy framework and would therefore be acceptable in planning terms.
- 1.1.6. Table 1 considers adopted NPSs EN-1 and EN-3, and demonstrates how the Proposed Scheme complies with the relevant policies.
- 1.1.7. Table 2 considers the emerging NPSs EN-1 and EN-3, and as per Table 1, assesses compliance of the Proposed Scheme with the relevant draft policies.
- 1.1.8. In Table 2, under the second column titled "Emerging Policy Text Detailing Changes", changes between the existing policies in the adopted versions of the relevant NPSs (EN-1 and EN-3) and the draft policies within the equivalent emerging NPSs (EN-1 and EN-3) are shown as 'tracked changes'. This ensures that text proposed for removal or insertion in the draft NPSs is clearly identifiable against the adopted policies, in order to allow easy identification of any proposed policy changes.

- 1.1.9. This first version of the National Policy Statement tracker largely replicates the content of the Planning Statement, and therefore, in addition to the request 'clean' version, we submit a tracked version, in order to show updates from the original submission. Please note the following in respect of the tracked changes:
 - In Table 1, under the third column titled "Compliance with NPS" and in Table 2, under the third column titled "Assessment of Changes of Relevance", the tracked version of this document shows changes to the relevant text provided in the submitted Planning Statement (APP-032).
 - For the rows in Table 1 which detail compliance with Parts 2 to 4 of EN-1 and Parts 2.5.30, 2.4 and 2.3 of EN-3 (i.e. up to page 33 of this report), this text is extracted from Chapter 4 of the Planning Statement, and tracked changes show the meaningful changes to the content of this assessment (i.e. omitting formatting, paraphrasing and updates to document references).
 - For the rows in Table 1 which detail compliance with Part 5 of EN-1 and the remaining policies in Part 2.5 of EN-3, and for the whole of Table 2 (i.e. page 33 onwards of this report), this text is lifted directly from Appendices B.1 and C.1 of the Planning Statement, and all tracked changes are shown to those tables (ie including formatting, paraphrasing and updates to document references).
- 1.1.10. This approach has been taken to this first version of the National Policy Statement tracker, and moving forward tracked changes will only be made to the final column to account for any updates.
- 1.1.11. Tables 1 and 2 assess the Proposed Scheme against adopted and emerging national policy, inclusive of the proposed change accepted at the discretion of the Examining Authority ('ExA') on 05 December 2022. Note, this accounts for some of the changes to the NPS assessment within the Planning Statement.
- 1.1.12. This National Policy Statement tracker will be reviewed and updated if required throughout the course of the examination.

2. ADOPTED NATIONAL POLICY STATEMENTS

Table 1 assesses the Proposed Scheme against EN-1 and EN-3. The assessment considers both the 'assessment principles' and 'generic impacts' policies in EN-1. The technology-specific information parts of EN-3 have also been assessed below and the relevant part of the NPS is referenced. The assessment undertaken below is inclusive of the proposed changes accepted at the discretion of the ExA, as detailed in the Proposed Change Application Report ('PCAR') (AS-045).

Table 1 - Adopted National Policy Statement Compliance Tracker

Policy	Policy Text	Compliance with NPS
Technical Considerations for the SoS when Determining Biomass/Waste Combustion Plant Applications: Flexibility in the Project Details (Part 2.5 of EN-3)	Paragraph 2.5.30 of EN-3 states: Generic information on flexibility is set out in Section 4.2 of EN-1. The SoS should accept that biomass/waste combustion plant operators may not know the precise details of all elements of the proposed development until some time after any consent has been granted. Where some details have not been included in the application to the SoS, the applicant should explain which elements of the scheme have yet to be finalised and give the reasons. Therefore, some flexibility may be required in the consent. Where this is sought and the precise details are not known, then the applicant should assess the effects the project could have (as set out in EN-1 paragraph 4.2.8) to ensure that the project as it may be constructed has been properly assessed. In this way the maximum-adverse case scenario will be assessed and the SoS should allow for this uncertainty in its consideration of the application and consent.	Section 2.5.30 of EN-3 details the need for flexibility in the application process. The Environmental Statement ('ES') has therefore sought to define the principles of the Proposed Scheme in sufficient detail to allow the likely significant effects on the environment to be assessed and the mitigation measures to be identified. In some respects, it has not been possible to fix details of the Proposed Scheme in advance of the submission and subsequent examination of the Application and therefore flexibility is required. Flexibility has been sought to allow the Proposed Scheme to be delivered within the requirements of contractors delivering it with sufficient scope for value engineering through innovative design and / or construction techniques. This is, for example, to allow for unforeseeable technological advancements and efficiencies to be incorporated in the final design. Flexibility is also required to allow for the future connection to the Zero Carbon Humber ('ZCH') cluster. Flexibility is required in relation to Work No. 2 area as shown on the Works Plans (AS-073) to allow for either National Grid Carbon Limited's ('NGCL') new carbon dioxide delivery terminal compound to be provided in the Work No. 2 area, or to be located elsewhere outside of the Order Limits, with the Proposed Scheme pipeline running to the edge of the Order Limits. This flexibility is set out in Schedule 1 (Authorised Development) of the Draft DCO (AS-076). The design of the Proposed Scheme therefore requires a necessary degree of flexibility to allow for the future selection of the preferred technology in the light of prevailing policy, regulatory and market conditions once a DCO is made. In this respect, the Applicant has adopted the principles of the 'Rochdale Envelope' and has assessed through the Environmental Impact Assessment ('EIA') maximum 'worst case' dimensions and design parameters. **Summary** As flexibility is required, the Applicant has assessed the effects the Proposed Scheme could have within the ES, in line with pa
Government Policy on Energy and Energy Infrastructure (Part 2 of EN-1)	Paragraph 2.2.5 – 2.2.7 of EN-1 states: The UK economy is reliant on fossil fuels, and they are likely to play a significant role for some time to come. Most of our power stations are fuelled by coal and gas. The majority of homes have gas central heating, and on our roads, in the air and on the sea, our transport is almost wholly dependent on oil. However, the UK needs to wean itself off such a high carbon energy mix: to reduce greenhouse gas emissions, and to improve the security, availability and	Part 2 of EN-1 outlines the policy context for the development of nationally significant energy infrastructure, reflecting the Government's commitment to meeting key goals relating to carbon emission reductions, energy security and affordability. Paragraph 2.2.6 of Part 3 of EN-1 states that the UK needs to wean itself off its high carbon energy mix to reduce Greenhouse Gas ('GHG') emissions, amongst other things. The Proposed Scheme will assist in reducing GHG emissions in line with paragraph 2.2.6, supporting the Government's commitment to reaching carbon emission reductions.

affordability of energy through diversification. Under some of the illustrative 2050

Policy Text

pathways, electricity generation would need to be virtually emission-free, given that we would expect some emissions from industrial and agricultural processes, transport and waste to persist. By 2050, we can expect that fossil fuels will be scarcer, but will still be in demand, and that prices will therefore be far higher. Further, the UK's own oil and gas resources will be depleting and, worldwide, the costs and risks of extracting oil in particular will increase.

Continuation of global emissions, including greenhouse gases like carbon dioxide, at current levels could lead average global temperatures to rise by up to 6°C by the end of this century. This would make extreme weather events like floods and droughts more frequent and increase global instability, conflict, public health-related deaths and migration of people to levels beyond any recent experience. Heat waves, droughts, and floods would affect the UK.

Paragraph 2.2.11 of EN-1 states:

This NPS also sets out how the energy sector can help deliver the Government's climate change objectives by clearly setting out the need for new low carbon energy infrastructure to contribute to climate change mitigation.

Paragraph 2.2.20 of EN-1 states:

It is critical that the UK continues to have secure and reliable supplies of electricity as we make the transition to a low carbon economy. To manage the risks to achieving security of supply we need:

- sufficient electricity capacity (including a greater proportion of low carbon generation) to meet demand at all times. Electricity cannot be stored so demand for it must be simultaneously and continuously met by its supply. This requires a safety margin of spare capacity to accommodate unforeseen fluctuations in supply or demand
- reliable associated supply chains (for example fuel for power stations) to meet demand as it arises:
- a diverse mix of technologies and fuels, so that we do not rely on any one technology or fuel14. Diversity can be achieved through the use of different technologies and multiple supply routes (for example, primary fuels imported from a wide range of countries); and
- there should be effective price signals, so that market participants have sufficient incentives to react in a timely way to minimise imbalances between supply and demand.

Paragraph 2.2.22 of EN-1 states:

Looking further ahead, the 2050 pathways show that the need to electrify large parts of the industrial and domestic heat and transport sectors could double demand for electricity over the next forty years. It makes sense to switch to electricity where practical, as electricity can be used for a wide range of activities (often with better efficiency than other fuels) and can, to a large extent,

Compliance with NPS

Paragraph 2.2.7 of EN-1 goes on to emphasise the significant adverse effects which will arise if global emissions continue at their current levels, with paragraph 2.2.8 confirming that to avoid the most dangerous impacts of climate change, "global emissions must start falling as a matter of urgency".

Paragraph 2.2.11 acknowledges that the energy sector can help the Government in delivering their climate change objectives.

Paragraph 2.2.20 of EN-1 states that it is critical that the UK has reliable, secure supplies of electricity as it transitions to a low carbon economy. To manage risks, the UK needs sufficient electric capacity, including a greater quantity of low carbon generation, and a mix of technologies and fuels, amongst other things.

Paragraph 2.2.22 of EN-1 explains that the nearly all consumed electricity will need to be from low carbon sources if the UK is to meet emissions targets. Paragraph 2.2.23 goes on to state that the Government will pursue Carbon Capture and Storage ('CCS') (amongst other technologies), to reduce its dependence on fossil fuels, particularly unabated combustion.

Summary

The Proposed Scheme provides an opportunity to assist the UK to "to wean itself off its high carbon energy mix to reduce GHG emissions" and aid the Government in meeting its climate change objectives through delivering new low carbon energy infrastructure, in line with paragraphs 2.2.6 and 2.2.7 of EN-1. The response which the Proposed Scheme offers to government strategies is considered in further detail in the Planning Statement (APP-032) and the Needs and Benefits Statement (APP-033).

The Proposed Scheme will add to the mix of technologies sought to reduce carbon emissions and assist in the UK's energy security objectives, whilst overall contributing to the assertion at paragraph 2.2.22 of EN-1 that "all consumed electricity will need to be from low carbon sources if the UK is to meet emissions targets".

Based on the above, the Applicant considers that the Proposed Scheme accords with the relevant policies of Part 2 of EN-1.

Policy	Policy Text	Compliance with NPS
	be scaled up to meet demand. To meet emissions targets, the electricity being consumed will need to be almost exclusively from low carbon sources. Contrast this with the first quarter of 2011, when around 75% of our electricity was supplied by burning gas and coal. Paragraph 2.2.23 of EN-1 states: The UK must therefore reduce over time its dependence on fossil fuels, particularly unabated combustion. The Government plans to do this by improving energy efficiency and pursuing its objectives for renewables, nuclear power and carbon capture and storage. However some fossil fuels will still be needed during the transition to a low carbon economy	
The Need for New Nationally Significant Energy Infrastructure Projects (Part 3 of EN-1)	Paragraphs 3.1.1 to 3.1.4 of EN-1 state: The UK needs all the types of energy infrastructure covered by this NPS in order to achieve energy security at the same time as dramatically reducing greenhouse gas emissions. It is for industry to propose new energy infrastructure projects within the strategic framework set by Government. The Government does not consider it appropriate for planning policy to set targets for or limits on different technologies. The SoS should therefore assess all applications for development consent for the types of infrastructure covered by the energy NPSs on the basis that the Government has demonstrated that there is a need for those types of infrastructure and that the scale and urgency of that need is as described for each of them in this Part. The SoS should give substantial weight to the contribution which projects would make towards satisfying this need when considering applications for development consent under the Planning Act 2008. Paragraph 3.2.2 states: As we move towards 2050 the ways in which we use energy will be transformed. We need to become less dependent on some forms of energy, as new and innovative low carbon technologies and energy efficiency measures are taken up. We also shall become more dependent on others – for example, demand for electricity will increase if we electrify large parts of transport, heating and industry. Paragraph 3.2.3 of EN-1 states: This Part of the NPS explains why the Government considers that, without significant amounts of new large-scale energy infrastructure, the objectives of its energy and climate change policy cannot be fulfilled. However, as noted in Section 1.7, it will not be possible to develop the necessary amounts of such infrastructure without some significant residual adverse impacts. This Part also shows why the Government considers that the need for such infrastructure will often be urgent. The SoS should therefore give substantial weight to	

Policy	Policy Text	Compliance with NPS
	considerations of need. The weight which is attributed to considerations of need in any given case should be proportionate to the anticipated extent of a project's actual contribution to satisfying the need for a particular type of infrastructure.	
	Paragraph 3.3.5 of EN-1 states:	
	The UK is choosing to largely decarbonise its power sector by adopting low carbon sources quickly. There are likely to be advantages to the UK of maintaining a diverse range of energy sources so that we are not overly reliant on any one technology (avoiding dependency on a particular fuel or technology type). This is why Government would like industry to bring forward many new low carbon developments (renewables, nuclear and fossil fuel generation with CCS) within the next 10 to 15 years to meet the twin challenge of energy security and climate change as we move towards 2050.	
General Points	Paragraph 4.1.2 of EN-1 states:	Secretary of State Dec
(Part 4.1 of EN-1)	Given the level and urgency of need for infrastructure of the types covered by the energy NPSs set out in Part 3 of this NPS, the SoS should start with a presumption in favour of granting consent to applications for energy NSIPs. That presumption applies unless any more specific and relevant policies set out in the relevant NPSs clearly indicate that consent should be refused. The presumption is also subject to the provisions of the Planning Act 2008 referred to at paragraph 1.1.2 of this NPS.	Paragraph 4.1.2 of EN-1 presumption in favour of any more specific and refused or any of the corapply. In considering application their banefits, paragraph
	Paragraph 4.1.3 – 4.1.4 of EN-1 states:	their benefits, paragraph and the potential adverse
	In considering any proposed development, and in particular when weighing its adverse impacts against its benefits, the SoS should take into account:	Within this context, para economic benefits and a
	 its potential benefits including its contribution to meeting the need for energy infrastructure, job creation and any long-term or wider benefits; and its potential adverse impacts, including any long-term and cumulative adverse impacts, as well as any measures to avoid, reduce or compensate for any adverse impacts. 	Chapter 6 of the Plannin benefits of the Proposed substantial benefits and (APP-033) provides a ful Whilst paragraph 4.1.5 of
	In this context, the SoS should take into account environmental, social and economic benefits and adverse impacts, at national, regional and local levels. These may be identified in this NPS, the relevant technology-specific NPS, in the application or elsewhere (including in local impact reports). Paragraph 4.1.5 of EN-1 states:	relevant to decision make the primary policy documenters. Chapter 5 of the the Proposed Scheme we emerging draft NPSs with
	Other matters that the SoS may consider both important and relevant to its decision-making may include Development Plan Documents or other	As the Proposed Schem and other national and lo
	documents in the Local Development Framework. In the event of a conflict	Requirements
	between these or any other documents and an NPS, the NPS prevails for purposes of SoS decision making given the national significance of the	Regarding requirements

Secretary of State Decision Making

Paragraph 4.1.2 of EN-1 highlights the urgent need for energy infrastructure and reiterates that there is a presumption in favour of granting development consent for energy NSIPs. The presumption applies unless any more specific and relevant policies set out in the relevant NPS clearly indicate that consent should be refused or any of the considerations referred to in section 104(4) to (8) of the Planning Act 2008 ('PA2008') apply.

In considering applications for energy NSIPs, and in particular when weighing their adverse impacts against their benefits, paragraph 4.1.3 of EN-1 states that the SoS should take into account the potential benefits and the potential adverse impacts of the NSIP, as well as any mitigative measures proposed.

Within this context, paragraph 4.1.4 of EN-1 directs the SoS to take into account environmental, social and economic benefits and adverse impacts nationally, regionally and locally.

Chapter 6 of the Planning Statement (APP-032) provides an assessment of the key benefits and disbenefits of the Proposed Scheme, demonstrating that the Proposed Scheme would have a number of substantial benefits and that these clearly outweigh its dis-benefits. The Needs and Benefits Statement (APP-033) provides a further assessment of the need for, and the benefits of, the Proposed Scheme.

Whilst paragraph 4.1.5 of EN-1 confirms that matters that the SoS may consider both important and relevant to decision making on energy NSIPs may include local development plan documents, the NPSs as the primary policy documents take precedence in the event of a conflict between the NPSs and other matters. Chapter 5 of the Planning Statement provides an assessment and appraisal of the accordance of the Proposed Scheme with local planning policy, and the Proposed Scheme is assessed against the emerging draft NPSs within Table 2 of this National Policy Statement Compliance Tracker.

As the Proposed Scheme is considered to accord with the policies contained within EN-1, the other NPSs and other national and local policy, there is no conflict between the NPS(s) and other matters.

Requirements

Regarding requirements, paragraph 4.1.7 of EN-1 states the SoS should only impose requirements for development consent that are "necessary, relevant to planning, relevant to the development to be consented, enforceable, precise, and reasonable in all other respects."

infrastructure.

Paragraph 4.1.7 of EN-1 states:

Policy Text Policy The SoS should only impose requirements in relation to a development consent that are necessary, relevant to planning, relevant to the development to be consented, enforceable, precise, and reasonable in all other respects. The SoS should take into account the guidance in Circular 11/95, as revised, on "The Use of Conditions in Planning Permissions" or any successor to it. Paragraph 4.1.8 of EN-1 states: The SoS may take into account any development consent obligations that an applicant agrees with local authorities. These must be relevant to planning, necessary to make the proposed development acceptable in planning terms, directly related to the proposed development, fairly and reasonably related in scale and kind to the proposed development, and reasonable in all other respects. Paragraph 4.1.9 of EN-1 states: In deciding to bring forward a proposal for infrastructure development, the applicant will have made a judgement on the financial and technical viability of the proposed development, within the market framework and taking account of Government interventions. Where the SoS considers, on information provided in an application, that the financial viability and technical feasibility of the proposal has been properly assessed by the applicant it is unlikely to be of relevance in SoS decision making (any exceptions to this principle are dealt with where they arise in this or other energy NPSs and the reasons why financial viability or technical feasibility is likely to be of relevance explained).

Compliance with NPS

The Applicant has included a number of requirements within Schedule 2 of the Draft DCO (AS-076) in respect to the detailed design of the Proposed Scheme, as well as its construction, operation and decommissioning, in order to appropriately mitigate and manage adverse effects throughout the lifetime of the scheme.

The draft requirements include:

- a. Timeframe in which to commence development;
- b. Approval of phasing of construction;
- c. Notification to the relevant planning authority at certain stages of development;
- d. Written approval required;
- e. Approval and amendment of details pursuant to the requirements;
- f. Detailed design of the Proposed Scheme;
- g. Detailed landscaping and biodiversity mitigation and enhancement proposals;
- h. Design of external lighting during operation;
- Design of highway accesses during construction;
- j. Surface water drainage design and management;
- k. Flood risk mitigation;
- I. Management of contaminated land risk;
- m. Archaeology;
- n. The preparation and implementation of a Construction Environmental Management Plan (CEMP);
- o. The preparation and implementation of a Construction Traffic Management Plan (CTMP);
- p. The preparation and implementation of a Construction Workers Travel Plan (CWTP);
- q. Control of noise during operation;
- r. The preparation and implementation of a Decommissioning Environmental Management Plan; and
- s. The preparation and implementation of a Decommissioning Traffic Management Plan.

We consider that the proposed requirements are necessary, relevant to planning, relevant to the development to be consented, enforceable, precise, and reasonable in all other respects, in accordance with paragraph 4.1.7 of EN-1.

The ES and accompanying documents and other documents submitted to the Examining Authority ('ExA') (including this National Policy Statement Compliance Tracker), provide the justification and necessity for the proposed requirements.

The requirements are drafted to provide the relevant controls to ensure that Proposed Scheme is constructed, operates and is decommissioned in accordance with the measures proposed to ensure that impacts arising from the development do not give rise to effects any worse than those set out in the ES.

Development Consent Obligations

Under paragraph 4.1.8 of EN-1, the SoS may also take into account any development consent obligations under section 106 of the Town and Country Planning Act 1990 (as amended by section 174 of the PA2008) that an applicant agrees with local authorities. Any such obligations must meet similar tests to requirements in that they must be:

- a. "Relevant to planning;
- b. Necessary to make the proposed development acceptable in planning terms;

Policy	Policy Text	Compliance with NPS
		c. Directly related to the proposed development;
		d. Fairly and reasonably related in scale and kind to the proposed development; and
		e. Reasonable in all other respects."
		The Applicant's EIA of the Proposed Scheme has identified some environmental effects that would require mitigation. Mitigation measures have been embedded into the design of the Proposed Scheme or are secured through the requirements in Schedule 2 to the Draft DCO (AS-076).
		In addition, heads of terms for a development consent obligation agreement with SDC and NYCC are included in the Heads of Terms for a Section 106 Agreement (AS-016). This covers the following obligations:
		 a. Ecological Off-Site Improvement Works and River Habitat – this includes new and enhanced woodland and scrub at Arthurs Wood and Fallow Field, providing ecological compensation and mitigation and supporting the delivery of biodiversity net gain ('BNG') for the Proposed Scheme; as well as the deliver of off-site River Habitat to deliver BNG; b. Local Employment Scheme – this will be submitted for approval prior to commencement (including opportunities for the use of local suppliers and contractors, and developing opportunities for local people to access training opportunities); and c. Local Liaison Committee – a local liaison committee to be established by the Applicant in order to liaised during the construction and operational period with local residents and organisations about matters relating to the construction and operation of the Proposed Scheme.
		The Applicant considers that the above obligations meet the tests set out under paragraph 4.1.8 of EN-1 (as explained above). The obligations are relevant to planning as they all seek to mitigate adverse impacts arising from the Proposed Scheme or enhance and secure positive impacts of the Proposed Scheme. For example, the proposed ecological enhancements contain compensatory planting to mitigate habitat loss, and the Local Liaison Committee is a measure seeking to address potential impacts on residential amenity. In addition, the Local Employment Scheme seeks to assist in delivering the benefits of the Proposed Scheme (such as job generation and associated economic benefits), so that they directly impact the local economy. For these reasons, the obligations are also necessary to make the Proposed Scheme acceptab in planning terms and therefore directly related to the Proposed Scheme.
		The Applicant considers that the obligations are fairly and reasonably related in scale and kind to the Proposed Scheme, and based on the aforementioned reasons, are therefore appropriate in all other aspects.
		The Applicant is in ongoing discussions with SDC and NYCC regarding the above obligations and expects to enter into a Section 106 Agreement to secure their delivery over the course of the examination. The new North Yorkshire Council ('NYC') will be established on 1 April 2023. As such, subject to timescales relating to the DCO Application and negotiation of the Section 106 Agreement, the new NYC could be responsible for entering into the Agreement with the Applicant, as the Local Authority for North Yorkshire where the Order Limits are located. In any event, the Section 106 agreement entered into will make provision for NY to take over responsibilities from NYCC and SDC.
		to take over responsibilities from NYCC and SDC.

Policy	Policy Text	Compliance with NPS
		Financial Viability and Technical Feasibility
		Paragraph 4.1.9 of EN-1 states that "Where the SoS considers, on information provided in an application, that the financial viability and technical feasibility of the proposal has been properly assessed by the applicant it is unlikely to be of relevance in SoS decision making"
		In this case, the Applicant has taken commercial and financial matters into consideration and decided to proceed with the Proposed Scheme. The Applicant currently owns the Drax Power Station, which is situated on part of the land within the Order Limits. The decision to install carbon capture technology at Drax Power Station complements the Applicant's ongoing work to explore more sustainable means and outcomes of energy generation. Four existing biomass units at Drax Power Station are converted pulverised fuel boilers, capable of burning different biomass fuels, and biomass sourced from sustainably managed forests is already used to generate electricity.
		The Proposed Scheme would involve the installation of post-combustion carbon capture technology to capture carbon dioxide from up to two existing 660-megawatt electrical ('MWe') biomass power generating units at the Drax Power Station (Unit 1 and Unit 2). The installation of this technology constitutes an extension to the Existing Drax Power Station (of which biomass Units 1 and 2 form part), and is referred to as post-combustion carbon capture as the carbon dioxide is captured from the flue gas produced during the combustion of biomass in Units 1 and 2. The Proposed Scheme is designed to remove approximately 95% of the carbon dioxide from the flue gas from these two Units. The carbon dioxide captured will undergo processing and compression before being transported via a proposed new pipeline for storage under the southern North Sea. Transport and storage infrastructure will be consented through separate applications submitted by other parties.
		The Hydrogen Low Carbon Pipeline ('HLCP') intends to establish a pipeline network in the region to transport carbon dioxide and hydrogen to facilitate Carbon Capture Use and Storage ('CCUS'), supporting the ambition of the ZCH Partnership to create the world's first net zero industrial cluster.
		National Grid Ventures ('NGV') consulted on potential pipeline route corridors in autumn 2021, and in March 2022 announced the preferred route corridor, which will run from Drax Power Station to the Holderness coast. The preferred route is based on connecting to major industrial emitters and power stations in the Humber region at Drax, Keadby, British Steel, Killingholme and Saltend. The preferred route is to be approved by the Government, whose final decision will be announced in May 2022.
		Anticipated timescales for the delivery of the HLCP are as follows:
		a. Early spring 2022 - Community updates and engagement;
		b. Summer 2022 - Statutory consultation on detailed route proposals;
		c. Late 2022 — DCO application to PINS;
		d. 2023 / early 2024 – DCO examination and determination process;
		e. 2024 — Construction begins; and f. 2026 — Earliest completion date
		Most recently, the detailed route was consulted on in Autumn 2022. Anticipated timescales for the delivery of the HLCP are as follows:
		a. Winter 2022 / early-2023 - Consideration of consultation feedback and finalisation of the proposal;
Dray Biognardy with Co	rbon Capture and Storage	Page 10 of 156

Policy	Policy Text	Compliance with NPS
		 b. Early to mid-2023 – submission of DCO application to PINS; c. 2023 / early-2024 – DCO examination and determination process; d. Autumn 2024 – Construction begins; and e. 2026 – Earliest completion date.
		NGV is part of the East Coast Cluster ('ECC') bid, combining Humber and Teesside regions, as recently submitted to the department of Business Energy and Industrial Strategy ('BEIS') as part of the CCUS cluster sequencing consultation. BP, as lead transportation and storage operator for this cluster, have responsibility for the end-to-end full chain process and associated Endurance store offshore. NGV's role in the deployment of CCUS at scale in the Humber means that close working with emitters, such as Drax Power Station is key. The HLCP network is the proposed infrastructure for transporting the carbon captured by the Proposed Scheme to the interface at landfall with the offshore pipelines for onward transportation to the Endurance saline aquifer for storage. NGV's interest relates to the interfaces between the BECCS project and HLCP, which includes the proposed carbon dioxide export connection and associated works.
		The Government's policy objective, which is detailed in the Planning Statement (APP-032) is for the UK to be net zero by 2050 and includes the objective to use CCUS to achieve net zero. The Prime Minister's '10 Point Plan' (HM Government, 2020), committed to deploy CCUS in a minimum of two industrial clusters by the mid-2020s. In October 2021, the Government has identified ECC as one of the clusters to deliver CCUS following a successful bid to BEIS.
		Paragraph 4.1.9 of EN-1 requires applicants to have made a judgement as to the financial and technical feasibility of their proposed development, within the market framework and taking account of Government interventions. Where financial and technical feasibility have been properly assessed by the applicant, these are unlikely to be relevant to the SoS's decision-making. Any exceptions to this principle are dealt with where they arise in EN-1 or other energy NPSs and the reasons why financial viability or technical feasibility is likely to be of relevance are explained.
		In this case the Applicant has taken commercial and financial matters into consideration and decided to proceed with the Proposed Scheme, as set out in the Funding Statement (AS-082) submitted to support the DCO Application. The Funding Statement demonstrates that the Applicant can fund the construction of the Proposed Scheme and any compulsory acquisitions necessary.
		It is therefore considered that the Proposed Scheme, and its objectives, satisfy the policy set out in paragraph 4.1.9 of EN-1.
		Summary
		Paragraph 4.1.2 of EN-1 highlights the urgent need for energy infrastructure. The current climate crisis and UK commitment to achieve net zero by 2050 highlights the urgent need for carbon reducing infrastructure, as will be delivered via the Proposed Scheme. CCS was described by the Committee on Climate Change ('CCC') (an independent, statutory body established under the Climate Change Act 2008) as a 'necessity' in order to achieve UK net-zero by 2050.
		Furthermore, the DCO Application demonstrates in the Funding Statement (AS-082) that the Proposed Scheme is financially feasible, in accordance with paragraph 4.1.9 of EN-1.
		When weighed against the benefits of the Proposed Scheme (as detailed further in the Needs and Benefits Statement (APP-033)), which include but are not limited to carbon negative emissions, employment

Policy	Policy Text	Compliance with NPS
		opportunities and ecological enhancements, the Applicant considers that any potential adverse impacts of the Proposed Scheme are clearly outweighed, and suitably mitigated.
		The proceeding assessment of national policy demonstrates that there are no NPS policies which indicate that consent of the Proposed Scheme should be refused, and demonstrates that no considerations referred to in section 104(4) to (8) of the PA2008 apply. A presumption in favour of granting the Proposed Scheme should therefore be taken, in accordance with paragraph 4.1.2 of EN-1.
		The Applicant therefore considers that the Proposed Scheme accords with the relevant policies of Part 4.1 of EN-1.
Environmental Statement (Part 4.2 of EN-1)	Paragraph 4.2.1 of EN-1 states: All proposals for projects that are subject to the European Environmental Impact Assessment Directive74 must be accompanied by an Environmental Statement	Paragraph 4.1.2 of EN-1 states that all proposals subject to the European EIA Directive must be accompanied by an ES which specifically details the aspects of the environment likely to be significantly affected by the project.
(3 5. 2,	(ES) describing the aspects of the environment likely to be significantly affected by the project75. The Directive specifically refers to effects on human beings76, fauna and flora, soil, water, air, climate, the landscape, material assets and cultural heritage, and the interaction between them. The Directive requires an assessment of the likely significant effects of the proposed project on the	Paragraphs 4.2.2 - 4.2.11 of EN-1 provide further guidance on the matters the ES needs to address.
		The DCO Application for the Proposed Scheme is accompanied by an ES (APP-037 - APP-055) which has been prepared in accordance with the EIA Regulations 2017, assessing the Likely Significant Effects of the Proposed Scheme taking into account the proposed mitigation measures, and distinguishing the stages of the Proposed Scheme as follows:
	environment, covering the direct effects and any indirect, secondary, cumulative, short, medium and long-term, permanent and temporary, positive and negative effects at all stages of the project, and also of the measures envisaged for avoiding or mitigating significant adverse effects.	a. Construction;b. Operational; andc. Decommissioning.
	Paragraph 4.1.2 of EN-1 states: [] the SoS will find it helpful if the applicant sets out information on the likely significant social and economic effects of the development, and shows how any likely significant pagetive effects would be avoided as mitigated. This information	The ES has been informed by the EIA Scoping Report (APP-115) which identifies the environmental topics where there is potential for significant impacts. The EIA Scoping Report was issued to PINS on 18 January 2021 and was consulted upon with the relevant LPAs. An EIA Scoping Opinion (APP-116) was received from PINS, on behalf of the SoS, on 26 February 2021.
	likely significant negative effects would be avoided or mitigated. This information could include matters such as employment, equality, community cohesion and well-being.	Appendix 4.2 (Scoping Opinion Responses) of the ES (APP-118) demonstrates that the ES is based on the PINS EIA Scoping Opinion (APP-116).
	Paragraph 4.1.3 of EN-1 states:	In accordance with EN-1, the submitted ES assesses the likely significant effects of the Proposed Scheme,
	For the purposes of this NPS and the technology-specific NPSs the ES should cover the environmental, social and economic effects arising from preconstruction, construction, operation and decommissioning of the project	and states how effects are being avoided and mitigated. The Register of Environmental Actions and Commitments ('REAC') (AS-092) submitted with the DCO Application sets out the proposed mitigation measures in detail. The ES distinguishes between the construction and operational phases and decommissioning of the Proposed Scheme, and also assesses the intra and interproject cumulative effects,
	Paragraph 4.1.4 of EN-1 states:	and is therefore in accordance with the policy contained in paragraphs 4.2.1, 4.2.4 and 4.2.5 of EN-1.
	When considering a proposal the SoS should satisfy itself that likely significant effects, including any significant residual effects taking account of any proposed mitigation measures or any adverse effects of those measures, have been adequately assessed. In doing so the SoS should also examine whether the assessment distinguishes between the project stages and identifies any mitigation measures at those stages	Paragraph 4.2.7 of EN-1 notes that it may not be possible at the time of the application for all aspects of the proposal to have been settled in precise detail and that the ES should set out, to the best of the Applicant's knowledge, what the maximum extent of the proposed development may be. At Chapter 2 (Site and Project Description) of the ES (APP-038), contains an explanation of the works and sets out the parameters for certain buildings for which the final dimensions cannot be determined at this stage. Therefore, the ES assesses the worst case scenario in terms of environmental effects, and the maximum design parameters.
	Paragraph 4.1.5 of EN-1 states:	The level of flexibility is controlled by the Draft DCO (AS-076), in that it requires that the works packages in Schedule 1 of the Draft DCO (which describes the Proposed Scheme authorised by the DCO) can only be

Policy	Policy Text	Compliance with NPS
	When considering cumulative effects, the ES should provide information on how the effects of the applicant's proposal would combine and interact with the effects of other development (including projects for which consent has been sought or granted, as well as those already in existence). [] Paragraph 4.1.7 – 4.1.8 of EN-1 states: In some instances it may not be possible at the time of the application for development consent for all aspects of the proposal to have been settled in precise detail. Where this is the case, the applicant should explain in its application which elements of the proposal have yet to be finalised, and the reasons why this is the case. Where some details are still to be finalised the ES should set out, to the best of the applicant's knowledge, what the maximum extent of the proposed development may be in terms of site and plant specifications, and assess, on that basis, the effects which the project could have to ensure that the impacts of the project as it may be constructed have been properly assessed. Paragraph 4.1.9 of EN-1 states: Should the SoS determine to grant development consent for an application where details are still to be finalised, it will need to reflect this in appropriate development consent requirements. [] Paragraph 4.1.11 of EN-1 states: In this NPS and the technology-specific NPSs, the terms 'effects', 'impacts' or 'benefits' should be understood to mean likely significant effects, impacts or benefits.	constructed within the corresponding areas of the Works Plans (AS-073). It also includes a requirement for the approval of the detailed design of the Proposed Scheme, requiring such detailed design to align with design principles and the maximum parameters included in the Draft DCO. Paragraph 4.2.7 of EN-1 also states that applicants should explain why there are elements of the proposal which are yet to be finalised. In the case of the Proposed Scheme, a degree of flexibility is required at present to allow for the future connection to the ZCH cluster and to allow for any unforeseen technological advancements and efficiencies which may emerge to be incorporated into the final design of the Proposed Scheme. Flexibility is sought to allow the Proposed Scheme to be delivered within the requirements of contractors delivering it with sufficient scope for value engineering through innovative design and / or construction techniques. In accordance with paragraph 4.2.2 of EN-1, an assessment of the likely significant socio-economic effects of the Proposed Scheme is contained at Chapter 16 (Population, Health and Socio-Economics) of the ES (APP-052). Further, in accordance with EN-1, the Chapter 18 (Cumulative Effects) of the ES (APP-054) considers the possible effects of the Proposed Scheme and how they could interact cumulatively with the effects of other planned or consented developments. The effects of the Proposed Scheme are summarised in Chapter 19 (Summary of Significant Effects) of the ES (APP-055). As noted above, the REAC (AS-092) sets out how mitigation is secured (i.e. through various consents and licenses, \$106 obligations or requirements in Schedule 2 of the DCO). Summary The above demonstrates that an EIA has been undertaken in accordance with the EIA Regulations 2017, and that the supporting ES submitted with the DCO Application meets the requirements set out in Part 4.1 of EN-1. The above also explains that an EIA Scoping Report (APP-115) has been submitted to the PINS prior to the submission of th
Habitats and Species Regulations (Part 4.3 of EN-1)	Paragraph 4.3.1 of EN-1 states: Prior to granting a development consent order, the SoS must, under the Habitats and Species Regulations79, (which implement the relevant parts of the Habitats Directive and the Birds Directive80 in England and Wales) consider whether the project may have a significant effect on a European site, or on any site to which the same protection is applied as a matter of policy, either alone or in	, , , , , , , , , , , , , , , , , , , ,

Policy	Policy Text
	combination with other plans or projects. [] The applicant should seek th advice of Natural England and/or the Countryside Council for Wales, and provid the SoS with such information as it may reasonably require to determine whether an Appropriate Assessment is required. In the event that an Appropriate Assessment is required, the applicant must provide the SoS with such information as may reasonably be required to enable it to conduct the Appropriate Assessment. This should include information on any mitigation measures that are proposed to minimise or avoid likely effects.

Compliance with NPS

(NE) and provide the SoS with such information as may be reasonably required to determine whether an Appropriate Assessment is required."

Paragraph 4.3.1 also confirms that in the event that an Appropriate Assessment is required, the Applicant must provide the SoS with such information as may reasonably be required to enable it to conduct the Appropriate Assessment. This should include information on any mitigation measures that are proposed to minimise or avoid likely adverse effects.

The DCO Application includes a Habitats Regulations Assessment ('HRA') report (APP-185) including HRA Screening Matrices (APP-191) and information to inform an Appropriate Assessment (APP-185 – APP-192).

The HRA report concludes that some likely significant effects have been identified on a number of European Sites, and mitigation measures to address each of the identified impact pathways are therefore proposed and set out in detail within the information to inform an Appropriate Assessment.

The likely significant effects identified on European Sites for the construction phase, both alone and incombination with other Plans and Projects, alongside the proposed mitigation measures are:

- a. Loss and disturbance of functionally-linked land during:
 - Hedgerow planting will be carried out in March of whichever calendar year(s) it is completed. This would be at the end of the core wintering/passage bird season (which is typically taken to be October to March inclusive), minimising potential effects of loss and disturbance of functionally-linked land on wintering/passage SPA and Ramsar bird species.
- b. Emissions of dust:
 - i. The implementation of a CEMP developed from the REAC (AS-092) which is submitted in conjunction with the ES. The CEMP is secured through a requirement in Schedule 2 of the DCO;
- c. Increased risk of pollution from increased sediment load:
 - i. The implementation of a CEMP and Decommissioning Environmental Management Plan ('DEMP') developed from the REAC and secured via a requirement in the DCO. The CEMP and DEMP will include a series of measures to avoid and manage the risk of increased pollution from sediment loading, including adherence to good practice guidance, the use of Method Statements for works which may increase sediment loading of Site drainage, and procedures for monitoring and inspections;
- d. Increased risk of pollution from accidental releases of water-borne pollutants:
 - i. The implementation of a CEMP and DEMP as above, which include a series of measures to avoid and manage the risk of increased pollution from water-borne pollutants, including adherence to good practice guidance, the use of Method Statements for managing works with potential to generate water-borne pollutants, and procedures for monitoring and inspections;
- e. Increased risk of visual disturbance:
 - The implementation of a CEMP and DEMP as above, which will include measures to avoid or minimise potential visual disturbance effects;

Policy	Policy Text	Compliance with NPS
		iii. The erection of hoardings to reduce visual effects, which is also detailed in the REAC and is secured via the CEMP;
		iv. The implementation of a detailed lighting strategy within the CEMP (as set out in the REAC), to be substantially in accordance with the Draft Lighting Strategy (APP-184) submitted with the DCO Application, which includes measures in relation to biodiversity to avoid or minimise potential increases in illumination of functionally-linked land that could be used by European Site qualifying interests;
		v. iv. The implementation of a number of measures to be completed specifically in relation to otter, which are set out in the REAC and is secured via the CEMP and DEMP.
		The likely significant effects identified for the operational phase of the Proposed Scheme, alongside the proposed mitigation measures, are summarised as follows:
		 a. Emissions of treated flue gas to air: i. The following operational changes to the Main Stack emissions parameters will be implemented to reduce the contribution to acid deposition at the identified sensitive habitats arising in the With Proposed Scheme scenario:
		 Reduce SO2 emissions by 40% compared to the Best Available Technology (BAT) Environmental Assessment Level (EAL), applied to the two BECCS Biomass Units; and
		~ Increase exit temperature of flue gases from the BECCS Units from 80°C to 100°C.
		 The above measures primarily bring benefits in reducing acidification effects, and also have minor beneficial effects in terms of contribution to nitrogen deposition and NH3 concentrations arising in the with Proposed Scheme scenario;
		 b. Accidental releases of water-borne pollutants: ii. A Detailed drainage design, substantially in accordance with the Surface Water Drainage Strategy ('SWDS') at Appendix 12.3 (Existing Drainage Systems and Proposed Surface Water Drainage
		Strategy) of the ES (APP-162) will minimise the potential impact of water-borne pollutants. This is secured by a requirement included in Schedule 2 of the Draft DCO.
		When considering the impact of the Proposed Scheme with the above mitigation measures applied, the HRA concludes that the Proposed Scheme (alone) will have no adverse effects on the integrity of any of the European Sites for which likely significant effects were identified.
		In respect of cumulative impact, the HRA concludes that the Proposed Scheme is not predicted to result in any adverse effects on the integrity of any European Sites, as a result of in-combination effects with other plans and projects.
		The Applicant has held discussions with Natural England and the Environment Agency ('EA') over the Proposed Scheme and is in active discussions with Natural England and the EA in respect of the HRA report, with the aim of setting out matters that are agreed in a Statement of Common Ground ('SoCG').
		Summary
		A HRA report informed by the Scoping Opinion and the advice received from Natural England and the EA assessing any potentially significant effects on European Sites accompanies the DCO Application.

Policy	Policy Text	Compliance with NPS
		The HRA report concludes that the Proposed Scheme will not give rise to any adverse effects on the integrity of any European Sites assessed, either in isolation or in combination with other projects.
		The Applicant therefore considers the Proposed Scheme is in accordance with the relevant policies of Part 4.3 of EN-1.
Alternatives (Part 4.4 of EN-1)	Paragraph 4.4.1 – 4.4.2 of EN-1 states: As in any planning case, the relevance or otherwise to the decision-making process of the existence (or alleged existence) of alternatives to the proposed development is in the first instance a matter of law, detailed guidance on which falls outside the scope of this NPS. From a policy perspective this NPS does not contain any general requirement to consider alternatives or to establish whether the proposed project represents the best option. However: applicants are obliged to include in their ES, as a matter of fact, information about the main reasons for the applicant's choice, taking into account the environmental, social and economic effects and including, where relevant, technical and commercial feasibility; in some circumstances there are specific legislative requirements, notably under the Habitats Directive, for the SoS to consider alternatives. These should also be identified in the ES by the applicant; and in some circumstances, the relevant energy NPSs may impose a policy requirement to consider alternatives (as this NPS does in Sections 5.3, 5.7 and 5.9).	Paragraph 4.4.2 states that the NPS does not contain a general requirement to consider alternatives, but that Applicants are obliged to include information about the main alternatives considered within the ES. It also states that specific legislative requirements for the SoS to consider alternatives, and that these should be identified in the ES by the Applicant. It also confirms that "the relevant energy NPSs may impose a policy requirement to consider alternatives." EN-1 does this in sections 5.3, 5.7 and 5.9 in relation to avoiding significant harm to biodiversity and geological conservation interests, flood risk and development within nationally designated landscapes, respectively. The Applicant has considered the reasonable alternatives which could be considered to realistically achieve the objectives for the Proposed Scheme which are set out in the Needs and Benefits Statement (APP-033) (including the location for the above ground infrastructure). The assessment of reasonable alternatives is set out within Chapter 3 (Consideration of Alternatives) of the ES (APP-039). Chapter 3 sets out the main reasons for the Applicant's choice, taking into account environmental, social and economic effects and including, where relevant, technical and commercial feasibility. As a result of the conclusions of the HRA documentation and the WFD Screening Report, no consideration of alternatives in the legislative context of those regimes has been required. The following alternatives have been considered for the Proposed Scheme: a. Do nothing scenario. b. Alternative development sites. c. Alternative development sites. c. Alternative construction Laydown Areas. This is in accordance with the relevant policy contained within EN-1, as well as regulation 14(2)(d) of the EIA Regulations 2017, which states that an ES should include: "A description of the reasonable alternatives studied by the applicant, which are relevant to the proposed development and its specific characteristics, and an indication of the main reaso

of EN-1.

Policy
Criteria for "Good Design" for Energy Infrastructure
(Part 4.5 of EN-1 and Part 2.4 of EN- 3)

Policy Text

Paragraph 4.5.1 of EN-1 states:

The visual appearance of a building is sometimes considered to be the most important factor in good design. But high quality and inclusive design goes far beyond aesthetic considerations. The functionality of an object — be it a building or other type of infrastructure — including fitness for purpose and sustainability, is equally important. Applying "good design" to energy projects should produce sustainable infrastructure sensitive to place, efficient in the use of natural resources and energy used in their construction and operation, matched by an appearance that demonstrates good aesthetic as far as possible. It is acknowledged, however that the nature of much energy infrastructure development will often limit the extent to which it can contribute to the enhancement of the quality of the area.

Paragraph 4.5.3 states:

In the light of the above, and given the importance which the Planning Act 2008 places on good design and sustainability, the SoS needs to be satisfied that energy infrastructure developments are sustainable and, having regard to regulatory and other constraints, are as attractive, durable and adaptable (including taking account of natural hazards such as flooding) as they can be. In so doing, the SoS should satisfy itself that the applicant has taken into account both functionality (including fitness for purpose and sustainability) and aesthetics (including its contribution to the quality of the area in which it would be located) as far as possible. Whilst the applicant may not have any or very limited choice in the physical appearance of some energy infrastructure, there may be opportunities for the applicant to demonstrate good design in terms of siting relative to existing landscape character, landform and vegetation. [...]

Paragraph 4.5.4 of EN-1 states:

For the SoS to consider the proposal for a project, applicants should be able to demonstrate in their application documents how the design process was conducted and how the proposed design evolved. Where a number of different designs were considered, applicants should set out the reasons why the favoured choice has been selected. In considering applications the SoS should take into account the ultimate purpose of the infrastructure and bear in mind the operational, safety and security requirements which the design has to satisfy.

Paragraph 2.4.2 of EN-3 states:

Proposals for renewable energy infrastructure should demonstrate good design in respect of landscape and visual amenity, and in the design of the project to mitigate impacts such as noise and effects on ecology.

Compliance with NPS

Overview

Based on the relevant policies of Part 4.5 of EN-1 and Part 2 of EN-3, this section demonstrates how the design of the Proposed Scheme has evolved in the lead up to the submission of the DCO Application, sets out the likely landscape and visual impacts of the Proposed Scheme, and explains mitigation measures proposed. This section also explains the approach adopted in relation to both temporary and permanent access to the Site.

The Consultation Report (APP-018) and the supporting chapters of the ES set out what consultation has been undertaken in relation to the Proposed Scheme and how the key issues and comments raised have or have not been taken into account, and the reasons for doing so.

It is noted that this section of the Planning Statement and the Design Framework (APP-195) cover the content that may otherwise be assessed in a separate Design and Access Statement.

The PPG 'Making an application' (UK Government, 2021) (with respect to applications under the Town and Country Planning Act 1990) states that a Design and Access Statement must:

- "a) explain the design principles and concepts that have been applied to the proposed development; and
- b) demonstrate the steps taken to appraise the context of the proposed development, and how the design of the development takes that context into account.

A development's context refers to the particular characteristics of the application site and its wider setting. These will be specific to the circumstances of an individual application and a Design and Access Statement should be tailored accordingly.

Design and Access Statements must also explain the applicant's approach to access and how relevant Local Plan policies have been taken into account. They must detail any consultation undertaken in relation to access issues, and how the outcome of this consultation has informed the proposed development. Applicants must also explain how any specific issues which might affect access to the proposed development have been addressed."

Design and Access Statements are not a requirement for NSIPs under The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 ('APFP Regulations'), and due to the nature of the Proposed Scheme and the Site, a separate Design and Access Statement is not considered to be necessary for this DCO Application. This approach has been agreed with PINS at the pre-application stage. Therefore, the following sections, in addition to the Design Framework (APP-195), cover the contents required by the PGG as set out above.

The Design Framework has been prepared in response to PINS EIA Scoping Opinion (APP-116), which includes a response from NYCC which states:

"Site Design - I would support consideration of the original design intent as set out by AE Weddle's 1966 Landscape and Mitigation Report (para. 10.2.3). Given the scale of the existing Drax site and the significant changes that have taken place since the original report, I would like to see a clear revised design strategy for the site. This strategy should explain how the current application achieves principles of 'good design' in context of the site as a whole, for the overall composition of site structures, massing, layout, colour and materials, aiming to reduce overall massing, visual coalescence and site clutter."

Policy	Policy Text	Compliance with NPS
		The Design Framework therefore provides a guide for the detailed design of the soft and hard landscaping within the Drax Power Station Site for the Proposed Scheme. The landscaping design principles set out in the Design Framework are included in the REAC (AS-092). A requirement in Schedule 2 of the draft DCO (AS-076) requires the approval of the detailed design of the Proposed Scheme. The detailed design submitted for approval must be in accordance with the "design principles" included in the REAC. There is also an additional requirement requiring that the Proposed Scheme be in accordance with the "design principles" more generally.
		Consultation
		The details of the Proposed Scheme have been subject to comprehensive consultation with the public, stakeholders and the LPAs. Chapter 9 (Landscape and Visual Impact) of the ES (APP-045) contains details of the relevant consultation undertaken in support of the preparation of the assessment. The Consultation Summary Table 9.1 in Chapter 9 provides a summary of the consultation responses from statutory consultees to the statutory consultation on the Preliminary Environmental Information Report ('PEIR') (see APP-027 for the Non-Technical Summary of the PEIR) and how comments from those consultees on the landscape and visual impacts of the Proposed Scheme have been addressed by the Applicant. Details of the consultation undertaken are also set out in the Consultation Report (APP-018).
		Study Area Context
		As detailed in Chapter 2 of this Planning Statement, the Site is within and adjacent to the Drax Power Station and is, therefore, largely within an industrialised landscape, although the surrounding environment comprises agricultural land interspersed with small settlements. Chapter 9 (Landscape and Visual Impact) of the ES (APP-45) reports the outcome of the assessment of likely significant environmental effects arising from the Proposed Scheme on Landscape Character and Visual Amenity.
		It contains a detailed appraisal of the existing landscape character and the design of the 1960's Drax Power Station (design by A E Weddle), which gave consideration to the need to reduce visual coalescence, visual clutter and achieve a simple design and symmetry. The setting and treatment of the buildings and structures was considered to be of utmost importance.
		Part 9.7 of Chapter 9 (Landscape and Visual Amenity) of the ES (APP-045) describes the landscape characterisation at national, county and local level. This includes a detailed description of the existing baseline landscape features and the value of the landscape resource, as well as the level of susceptibility and sensitivity to change. A 3km study area from the Order Limits for any landscape or visual impact was assessed. The study area is shown in Figure 9.4 of the ES (APP-101). This was based on a combination of professional judgement, previous experience on the Drax Repower DCO and an analysis of the height and massing of the Proposed Scheme. Beyond this distance, significant effects are not anticipated.
		The topography of the landscape is relatively flat, with small, isolated areas of high ground to the northwest, north-east and south-west including Hambleton Hough (approximately 40 m AOD and approximately 10 km from the Order Limits) and Brayton Barff (55 m AOD and approximately 7 km from the Order Limits) to the northwest, High Eggborough and Great Heck (approximately 9-10 km from the Order Limits) to the south-west. Barlow Mound to the west of Drax Power Station is a distinct local landmark, formed in the 1970's using residual materials from Drax Power Station.

Policy	Policy Text	Compliance with NPS
		Regarding vegetation, the landscape of the study area is characterised by intermittent hedgerow and hedgerow trees and small woodland blocks.
		In planning terms, the Proposed Scheme is industrial by nature and is considered to be appropriate for the context within which it is proposed to be located (i.e. within an established industrial area). However, it is acknowledged that due to the relatively flat topography of the Site and its surrounds, Drax Power Station is visible for several kilometres and, therefore, careful design of the Proposed Scheme is very important.
		The LVIA assesses the following:
		 a. The sensitivity of the landscape resource and visual receptors; b. The magnitude of change; and c. The significance of effect based on a comparison of the sensitivity of the resource / receptor against the magnitude of change.
		As aforementioned in paragraph 2.1.9 of the Planning Statement (APP-032), the Applicant has full planning permission for the demolition of the redundant FGD Plant and associated restoration works at Drax Power Station (2020/0994/FULM). The decommissioning and demolition work of Absorber Units 4, 5 and 6 are scheduled to take place prior to the start of the construction of the Proposed Scheme, whilst the demolition of Absorber Units 1, 2 and 3 will take place following the completion of the Proposed Scheme. The cumulative impact resulting from this consent is therefore taken into account within the landscape assessment. The full methodology is set out in Chapter 9 (Landscape and Visual Impact) of the ES (APP-045).
		In terms of design, the Design Framework (APP-195) sets out the iterative design process undertaken for the Proposed Scheme to date in accordance with paragraph 4.5.4 of EN-1. The aim of the Design Framework is to "establish a design framework and strategy to ensure the Scheme responds to the existing site context and historic design guidance, so as to deliver the best possible outcomes in terms of landscape and visual mitigation and integration."
		In summary, the Design Framework sets out the following:
		 a. An overview of the Drax Power Station, including its current functions, historic design guidance, existing consents and details of existing landscaping and colour schemes; b. Details of the Proposed Scheme, including a project description and overview of the Proposed Scheme areas, functions associated with the Proposed Scheme and details relating to architectural form and precedented imagery; c. Design principles applicable to the detailed design of the Proposed Scheme (via the REAC and a DCO Requirement), relating to siting, massing, appearance, landscape, biodiversity, climate change and sustainability; and d. An overview of relevant planning policy and legislation and how the Proposed Scheme complies with these policies.
		In terms of access, Chapter 5 (Traffic and Transport) of the ES (APP-041) confirms that access to the Drax Power Station Site for any operational related traffic, including Heavy Goods Vehicles (HGV) and AIL, will continue to use the existing access junctions off the A645 and New Road, which can accommodate HGV and non-HGV traffic.
		During the construction phase, two temporary construction site accesses from the public highway will be created to the East Construction Laydown Area and parking areas.

Policy	Policy Text	Compliance with NPS
		Access is detailed further in Chapter 5 (Traffic and Transport) of the ES (APP-041).
		Consideration of Alternatives and Development of the Proposed Scheme
		As noted above, Chapter 3 (Consideration of Alternatives) of the ES (APP-039) sets out the alternatives that have been considered before arriving at the Proposed Scheme design, in accordance with paragraph 4.5.4 of EN-1. Given the nature of the Proposed Scheme, i.e. retrofitting post combustion Carbon Capture technology to existing biomass generating units, geographically distant alternative power station sites were not considered viable and alternate sites were therefore not considered further (for reasons set out within Chapter 3 of the ES). In particular and amongst other reasons, the Site has been identified as a suitable location for National Grid Transport and Storage Infrastructure that is to be part of the ZCH project, and the Proposed Scheme, in this location, would form part of the ECC proposals detailed within the Planning Statement (APP-032).
		With regard to alternative layouts considered, Chapter 3 of the ES (APP-039) demonstrates that robust consideration has been given to the location of the Carbon Capture Plant and associated infrastructure required for the Proposed Scheme (including Solvent Storage and Make-up System and Carbon Capture Wastewater Treatment Plant). It is demonstrated that ultimately, the final design for the Proposed Scheme is the most suitable for its purpose.
		Other alternative design options considered relate to the extent of the Order Limits. Key areas within the Order Limits (being the Habitat Provision Area, East Construction Laydown Area and the Drax Power Station Site) have been through several design iterations and evolutions to remove land no longer required and therefore reduce impact, where possible. This process and the key design considerations are set out in Chapter 3 (Consideration of Alternatives) of the ES (APP-039). Visual impact was also a consideration in Chapter 3's assessment of alternative technologies.
		Effects and Mitigation
		Chapter 9 (Landscape and Visual Amenity) of the ES (APP-045) details the likely significant environmental effects on sensitive receptors as a result of the Proposed Scheme. The sensitive receptors identified are explained at Appendix 9.4 (Sensitive Receptors) of the ES (APP-15) and shown on Figure 9.2 (Visual Receptor Plan) of the ES (APP-099). Sensitive receptors include, but are not limited to, landscape receptors such as Landscape Character Area ('LCA') 6: Derwent Valley and Site Fabric such as vegetation, as well as visual receptors such as residents living in properties with views of land within the study area, people travelling along the PRoW and recreational users of the River Ouse.
		The preliminary assessment of likely significant effects identified a number of moderate adverse (significant) effects on a number of sensitive visual receptors during the construction phase and decommissioning of the Proposed Scheme. No adverse landscape effects are identified during the construction phase and decommissioning, and no adverse effects are predicted during the operational phase of the Proposed Scheme.
		Design and mitigation measures are proposed to reduce the visual impact on the Proposed Scheme.
		In respect of design, the Proposed Scheme has sought to retain vegetation where possible, by designing out the removal of existing, natural habitats such as those in the north and north-eastern area of the Drax Power Station through changes in Order Limits. This is detailed within the OLBS (document reference 6.6). Other primary mitigative measures include the implementation of a sensitive lighting scheme. This is

Policy	Policy Text	Compliance with NPS
		secured through a requirement in Schedule 2 of the DCO (AS-076). The requirement states that the final lighting scheme should substantially accord with the Draft Lighting Strategy (APP-184) submitted with the DCO Application. The lighting design will relate to permanent lighting required for the operation of the Proposed Scheme.
		Consideration has also been given to the materials and colour palette to be implemented. This is detailed in the Design Framework (APP-195), and explained in Chapter 9, where it states that the colour palette has been selected for the exterior of major buildings / structures has been selected based on a combination of historic design guidance, known colours used within the Drax Power Station and observations made during site visits. As aforementioned, the approval of the detailed design of the Proposed Scheme is secured through a requirement in Schedule 2 of the DCO (AS-076). The detailed design submitted for approval must be in accordance with the hard and soft landscaping "design principles" (set out in the Design Framework and included in the REAC (AS-092)). There is also an additional requirement relating to the detailed design of the Proposed Scheme.
		In terms of secondary mitigation, mitigative planting is proposed along the eastern boundary of the East Construction Laydown Area for the purpose of visual screening. The intention is to provide additional filtering of views towards the East Construction Laydown for footpath users east of the Drax Power Station Site and for occupiers of nearby residential properties during construction. Details of how the planting will be achieved is set out in the OLBS (AS-094). A number of mitigation measures are also set out in the REAC (AS-092) and is secured through the requirements in Schedule 2 of the DCO for a CEMP and DEMP. These measures will mitigate visual impact during the construction phase and decommissioning and include, but are not limited to, protecting the root zones of retained vegetation, the erection of hoardings around the construction compounds and laydown areas, and returning laydown areas and site compounds to their original use following completion of construction of the Proposed Scheme, and following decommissioning.
		Where vegetation will be removed to facilitate the construction of the Proposed Scheme, mitigation includes compensatory planting such as hedgerows and tree planting. Further details are set out in Chapter 9 (Landscape and Visual Amenity) of the ES (AS-045), the OLBS (AS-094), and Figure 1 (Landscape and Biodiversity Mitigation Plan) of the OLBS (APP-181) and the Design Framework (APP-195).
		With the mitigation measures applied, Chapter 9 (Landscape and Visual Amenity) of the ES (AS-045) concludes that whilst the overall visual impact of the Proposed Scheme will be reduced, the effects would remain moderate adverse (significant). All effects will be temporary.
		Balance of Significant Landscape and Visual Effects and Benefits of the Proposed Scheme
		In the context of landscape and visual amenity, there will be significant, temporary, negative visual effects associated with the Proposed Scheme during the construction phase and decommissioning of the development, as set out in Chapter 9 (Landscape and Visual Amenity) of the ES (APP-045).
		However, the negative effects must be balanced with the benefits of the Proposed Scheme (in particular the contribution to meeting the UK's net zero target), which are summarised in Section 6.2 of this Planning Statement and in the Needs and Benefits Statement (APP-033).
		It is again noted that the EN-1 acknowledges that " the nature of much energy infrastructure development will often limit the extent to which it can contribute to the enhancement of the quality of the area." The NPS

Policy	Policy Text	Compliance with NPS
		does not set an expectation that development proposals will be concealed from views, nor that they will improve landscape and visual character.
		Accordingly, the priority in design terms is to reduce, rather than prevent, adverse landscape and visual impacts where possible
		Summary
		In light of the above and as set out in Chapter 9 of the ES (AS-045), it is considered that the Proposed Scheme is sensitively designed and minimises adverse landscape and visual effects, and therefore represents good design.
		In accordance with policies of EN-1, the Proposed Scheme has been subject to a detailed LVIA which was informed by responses from consultees and supporting documents detail how the design of the Proposed Scheme has evolved to reduce impact.
		The Applicant therefore considers the Proposed Scheme is therefore considered to accord with the relevant policies of Part 4.5 of EN-1 and Part 2.4 of EN-3.
Consideration of Combined Heat and Power (CHP) (Part 4.6 of EN-1)	Paragraph 4.6.1 of EN-1 states: Combined Heat and Power (CHP) is the generation of usable heat and electricity in a single process. [] Paragraph 4.6.6 of EN-1 states: Under guidelines issued by DECC (then DTI) in 200685, any application to develop a thermal generating station under Section 36 of the Electricity Act 1989 must either include CHP or contain evidence that the possibilities for CHP have been fully explored to inform the SoS's consideration of the application.	If this DCO Application were for a new generating station, the Applicant would be required to submit a Combined Heat and Power ('CHP') Statement in accordance with paragraph 4.6.1 of EN-1 and 2006 CHP Guidance (Department of Trade and Industry, 2006) and also the CHP-R Guidance (Environment Agency, 2013). However, the Proposed Scheme relates to the installation of a carbon capture extension to an existing generating plant; it does not relate to the development of a new generating station. The requirement to provide a CHP Statement as part of a DCO Application for an extension to an existing generating station is not explicitly covered in EN-1 policies nor the aforementioned Guidance. A 'Requirement for a CHP Statement Assessment' ('the Assessment') was undertaken by the Applicant to aid pre-application discussions with the Environment Agency ('EA') to confirm whether or not a CHP Statement was required to support the DCO Application. The Assessment concluded that from a solely technical perspective, there was no merit in carrying out a CHP assessment. During the pre-application discussions, the EA confirmed that a CHP-Ready Assessment did not need to be undertaken. The reasons which led the Applicant to conclude that there was no merit in carrying out a CHP assessment are as follows: a. The post-combustion plant design will be optimised to maximise heat recovery and so only low-grade heat would be available, which is not considered suitable for district heating purposes. This means the post-combustion plant extension is not suitable to be CHP from the outset. With reference to the CHP Ready ('CHP-R') Guidance (Environment Agency, 2013), there are two criteria against which the proposal is to be assessed prior to conducting the three test Best Available Technique ('BAT') assessment process to demonstrate CHP Readiness. If an applicant can demonstrate that the two criteria are not met, there is no requirement for the plant to demonstrate CHP Readiness.

Policy	Policy Text	Compliance with NPS
		The two criteria are shown in Plate 1 below.
		Plate 1 - Extract from the CHP-R Guidance (Environment Agency, 2013)
		Is the New Power / EfW Plant required to be CHP or CHP-R? • No - The applicant / operator should demonstrate that the provision of CHP is not compatable with original operating regime / intention. • Yes - Proceed to Next Step Are there opportunities for the supply of heat? • No - The applicant / operator should demonstrate that there are no opportunites for supply of heat. • Yes - Proceed to Next Step
		The two criteria are assessed as follows: a. The New Power / Energy for Waste ('EfW') Plant is not required to be CHP or CHP-R. As outlined above, during operation of the proposed post combustion plant, all heat supplied to the plant and generated in the plant is recovered and so only a low-grade heat (warm condensate) is available from the plant, which is not considered suitable for district heating purposes. b. There are no opportunities for the supply of heat. As part of the CHP assessment completed as part of the recently made Drax Repower DCO (PINS Reference EN010091), it was determined that there are currently no viable heat loads available within the region which would make it commercially or technically feasible for CHP. An updated search has been undertaken using the BEIS online heat map tool (BEIS, 2022) and it has confirmed the findings of the Drax Repower DCO are still valid. ¹
		The Applicant has assessed the feasibility of CHP in accordance with the above paragraph 4.6 of EN-1 and
		the associated CHP and CHP-R Guidance. The Applicant does not consider CHP to be relevant to the Proposed Scheme. Regardless, the above assessment has demonstrated that the post-combustion plant extension is not suitable to be CHP-R due to the low-grade heat available, additionally, there are no opportunities for the supply of heat.
		As stated above, the EA raised no concerns with this approach during the pre-application engagement. The Proposed Scheme is therefore considered to accord with the relevant policies of Part 4.6 of EN-1.

Drax Bioenergy with Carbon Capture and Storage

¹ The heat map tool identifies small industrial heat loads in the neighbouring region of Barlow but the area is specified as the lowest intensity (MWh/km2) i.e. small heat loads scattered across a large area and so not suitable for a CHP Scheme. This has been verified by the Applicant as they understand to be no viable opportunities for supply of heat to industry within close proximity to the facility. Three large industrial heat loads were identified further afield and were investigated as part of the Drax Repower DCO but all three were deemed non-viable. (Due to either high process temperature requirements or the complexity and distance (>6km) required to supply the heat meant unjustifiably high commercial costs). The conclusion that there is no suitable CHP opportunity is only further augmented for heat supply from a post-combustion carbon capture plant as only low grade heat is available.

Policy Policy Text Compliance with NPS Paragraph 4.7.1 – 4.7.4 of EN-1 states: CCS Carbon Capture and Storage (CCS) and Carbon Capture and Storage (CCS) is an emerging technology that enables Paragraph 4.7.2 of EN-1 confirms that there are three types of carbon capture technology: Carbon Capture carbon dioxide that would otherwise be released to the atmosphere to be a. a. Pre-combustion capture: Readiness (CCR) captured and permanently stored. It can be applied to any large point source of b. b. Post-combustion capture; and carbon dioxide, such as fossil fuel power stations or other industrial processes (Part 4.7 of EN-1) c. c. Oxy-fuel combustion. that are high emitters. Carbon capture technologies are able to remove up to 90% of the carbon dioxide that would otherwise be released to the atmosphere The Proposed Scheme will utilise post-combustion capture, which paragraph 4.7.2 defines as follows: and offers the opportunity for fossil fuels to continue to be an important element "Post-combustion capture: this uses solvents to scrub CO2 out of flue gases. The CO2 is then released as of a secure and diverse low carbon energy mix. a concentrated gas stream by a regeneration process. Post-combustion capture is applicable to pulverised The chain of CCS has three links: capture of carbon, transport, and storage. coal generating stations." There are three types of capture technology: Paragraph 4.7.2 also states: "The chain of CCS has three links: capture of carbon, transport, and storage." ~ Pre-combustion capture: this method involves reacting fuel with oxygen or As set out in paragraph 1.3.1 of the Planning Statement (APP-032), the Proposed Scheme relates to the air, and in some cases steam, to produce a gas consisting mainly of carbon 'capture of carbon' link. The transport and storage 'links' will be the subject of separate consent monoxide and hydrogen. The carbon monoxide is reacted with more steam applications by third parties, such as by NGCL, and include the construction of a pipeline as part of the in a catalytic shift converter to produce more hydrogen and CO₂. The CO₂ HLCP project, to accommodate the transportation of carbon dioxide ('transport link') to the Endurance is then separated and the hydrogen is used as fuel in a combined cycle gas storage site under the North Sea ('storage link'). This is in line with paragraph 4.7.3 of EN-1, which states: turbine generating station. For coal, this method is based on integrated coal gasification combined cycle (ICGCC) technology. "Once carbon dioxide has been captured, it is then compressed and transported, before being permanently stored in deep geological formations, such as depleted oil and gas fields and saline aguifers. In the UK, the Post-combustion capture: this uses solvents to scrub CO₂ out of flue gases. The CO₂ is then released as a concentrated gas stream by a regeneration majority of locations thought to be best suited to storage of CO2 are located offshore." process. Post-combustion capture is applicable to pulverised coal Paragraph 4.7.4 explains whilst the Government's encouragement and steps to facilitate the demonstration generating stations. of CCS technology initially focussed on coal-fired power stations as their emissions are substantially higher Oxy-fuel combustion: in this process, fuel is burnt in an oxygen/ CO₂ mixture than other fuels: rather than air to produce a flue gas that is predominantly CO₂. With coal "CCS will also be required for other combustion generating stations in future and the Government has the technology would be deployed with a suitably modified pulverised coal therefore extended the demonstration programme to include gas-fired generating stations." combustion system, whilst with gas it could be used with a combined cycle Paragraphs 4.7.5 to 4.7.9 relate to the requirement for all commercial scale fossil fuelled generating system. stations to be carbon capture ready, and the pipeline infrastructure required to carry carbon dioxide to the Once carbon dioxide has been captured, it is then compressed and transported, associated storage. before being permanently stored in deep geological formations, such as depleted oil and gas fields and saline aquifers. In the UK, the majority of CCR locations thought to be best suited to storage of CO₂ are located offshore. Paragraphs 4.7.10 to 4.7.17 of EN-1 relate to CCR which is not relevant to this DCO Application, as the The Government has taken a number of steps to facilitate and encourage the Proposed Scheme relates to the installation of carbon capture plant and therefore overrides the need to be demonstration of CCS technology. The demonstration programme described in CCR. 3.6.5 focused initially on coal-fired power stations. This is because the Summary emissions from coal generation are substantially higher than from other fuels, The Proposed Scheme seeks the installation of post-combustion carbon capture technology, which has including gas; the projected increase in coal use globally creates a greater urgency to tackling emissions from coal; tackling emissions from coal first been designed to remove approximately 95% of the carbon dioxide from the flue gas emitted from two of makes most economic sense because of the greater emissions intensity; and the four generating units at Drax Power Station. new coal generating stations would contribute to the diversity and security of The technology therefore has the potential to exceed the assumed figures set out in paragraph 4.7.1 UK energy supplies as we make the transition to a low carbon mix. However, above. The Proposed Scheme aligns with the Government's encouragement of CCS technology, and

CCS will also be required for other combustion generating stations in future and

Policy	Policy Text	Compliance with NPS
	the Government has therefore extended the demonstration programme to include gas-fired generating stations.	therefore accords with paragraph 4.7.4 of EN-1 (notwithstanding that this policy predominantly relates to coal-fired power stations).
		Based on the above, the Applicant considers that the Proposed Scheme accords with the relevant policies of Part 4.7 of EN-1.
Climate Change Adaptation (Part 4.8 of EN-1 and Part 2.3 of EN-3)	Paragraph 4.8.1 – 4.8.2 of EN-1 states: [] This part of the NPS sets out how applicants and the SoS should take the effects of climate change into account when developing and consenting infrastructure. While climate change mitigation is essential to minimise the most dangerous impacts of climate change, previous global greenhouse gas emissions have already committed us to some degree of continued climate change for at least the next 30 years. If new energy infrastructure is not sufficiently resilient against the possible impacts of climate change, it will not be able to satisfy the energy needs as outlined in Part 3 of this NPS. Climate change is likely to mean that the UK will experience hotter, drier summers and warmer, wetter winters. There is a likelihood of increased flooding, drought, heatwaves and intense rainfall events, as well as rising sea levels. Adaptation is therefore necessary to deal with the potential impacts of these changes that are already happening. Paragraph 4.8.5 – 4.8.6 of EN-1 states: New energy infrastructure will typically be a long-term investment and will need to remain operational over many decades, in the face of a changing climate. Consequently, applicants must consider the impacts of climate change when planning the location, design, build, operation and, where appropriate, decommissioning of new energy infrastructure. The ES should set out how the proposal will take account of the projected impacts of climate change. While not required by the EIA Directive, this information will be needed by the SoS. The SoS should be satisfied that applicants for new energy infrastructure have taken into account the potential impacts of climate change using the latest UK Climate Projections available at the time the ES was prepared to ensure they have identified appropriate mitigation or adaptation measures. This should cover the estimated lifetime of the new infrastructure. Paragraph 2.3.2 of Part 3.2 of EN-3 states: Biomass generating stations are likely to be proposed for coastal	An assessment of likely significant environmental effects in relation to the vulnerability of the Proposed Scheme to climate change hazards, and an outline of the proposed design and mitigation measures is provided in Chapter 14 (Climate Change Resilience) of the ES (APP-050). The climate resilience assessment identifies the following sensitive receptors within the Proposed Scheme: a. Carbon Capture Plants (this includes the additional infrastructure associated with the Carbon Capture Plants); b. Existing Infrastructure; c. Road improvements; d. Ancillary works (including, site lighting infrastructure, emergency lighting, security infrastructure e.g., lighting and cameras, fencing); and e. Habitat Provision Area. The assessment identifies that the above sensitive receptors have the potential to be affected during the operational phase of the Proposed Scheme by climate change through the following climate variables: a. Precipitation; b. Temperature; c. Wind; d. Humidity; and e. Sea level rise. Following mitigation, the residual climate resilience effects of the Proposed Scheme were deemed to be 'minor adverse' (i.e., not significant) for the following potential effects: a. Carbon Capture Plants: i. Flooding of the Carbon Capture Plants and supporting infrastructure; ii. Faster rate of deterioration of materials from increase in UV radiation e.g., brittleness, fading; iii. Deterioration of material structure and fabric; b. Existing Structures: i. Increased wind loading on Main Stack compromising the structural integrity; iii. Faster rate of deterioration of materials from increase in UV radiation e.g., brittleness, fading; iii. Deterioration of material structure and fabric.
	 increased risk of flooding; impact of higher temperatures; and 	Chapter 14 (Climate Resilience) of the ES also considers how the Proposed Scheme will be resilient to flooding, drought, the impact of rising temperatures and the effects of rising sea levels, in line with

Policy	Policy Text	Compliance with NPS
	~ increased risk of drought affecting river flows.	paragraph 2.3.2 of EN-3, and the chapter concludes that there will be no adverse effects arising from climate change on the operational phase of the Proposed Scheme.
		The Applicant therefor considers that the Proposed Scheme accords with the relevant policies of Part 4.8 of EN-1 and Part 2.3 of EN-3.
Grid Connection (Part 4.9 of EN-1)	Paragraph 4.9.1 of EN-1 states: The connection of a proposed electricity generation plant to the electricity network is an important consideration for applicants wanting to construct or extend generation plant. In the market system, it is for the applicant to ensure that there will be necessary infrastructure and capacity within an existing or planned transmission or distribution network to accommodate the electricity generated. The applicant will liaise with National Grid who own and manage the transmission network in England and Wales or the relevant regional Distribution Network Operator (DNO) to secure a grid connection. It may be the case that the applicant has not received or accepted a formal offer of a grid connection from the relevant network operator at the time of the application, although it is likely to have applied for one and discussed it with them. This is a commercial risk the applicant may wish to take for a variety of reasons, although the SoS will want to be satisfied that there is no obvious reason why a grid connection would not be possible.	Part 4.9 of EN-1 provides policy in respect of the connection of a proposed generation plant to the grid network. At paragraph 4.9.1, EN-1 notes that the grid connection point of a generating station to the electricity network is an important consideration for applicants. The NPS highlights that it is for the applicant to ensure that there will be the necessary infrastructure and capacity within an existing or planned transmission or distribution network to accommodate the electricity generated. Paragraph 4.9.1 also emphasises that "The applicant will liaise with National Grid who own and manage the transmission network in England and Wales or the relevant regional Distribution Network Operator (DNO) to secure a grid connection." This paragraph further notes that it may be the case that an Applicant has not yet received or accepted a formal grid connection offer at the time of submitting an application, although it is likely to have applied for one and discussed it with them. The SoS will want to be satisfied that there is no obvious reason why a grid connection might not be possible. A Grid Connection Statement (APP-036) has been submitted to the ExA to support the DCO Application. The Grid Connection Statement confirms that the Proposed Scheme cosn not require connection to the National Transmission System (NTS'). This is because the Proposed Scheme comprises Combined Power Turbines which will be connected through new distribution voltage infrastructure to be constructed near the BECCS plant equipment. The new distribution voltage infrastructure will be installed by the Applicant as part of the DCO Application. In addition to the above, an alternate secondary electrical supply from the 132 kV air insulated switchgear would be required to ensure uninterruptable operation of the Proposed Scheme when power from the Combined Power Turbines is not available. The connection would be made at the existing 132 kV air insulated switchgear which is located in the south-eastern part of the existing Drax Power Station
		accordance with paragraph 4.9.1.
Dray Ricenergy with Carbon		Page 26 of 156

Policy	Policy Text	Compliance with NPS
		Summary The Grid Connection Statement (APP-036) confirms that the required electrical connection upgrade works are technically feasible and that the necessary contractual agreement with NGESO to secure the upgrade works is being secured. The Applicant is liaising with NG and a SoCG is being prepared with National Grid Carbon Limited, Nationa Grid ESO and National Grid Electrical Transmission. The Applicant therefore considers that the Proposed Scheme is in accordance with the relevant policies of Part 4.9 of EN-1.
Pollution Control and Other Environmental Regulatory Regimes (Part 4.10 of EN-1)	Paragraph 4.10.1 of EN-1 states: The connection of a proposed electricity generation plant to the electricity network is an important consideration for applicants wanting to construct or extend generation plant. In the market system, it is for the applicant to ensure that there will be necessary infrastructure and capacity within an existing or planned transmission or distribution network to accommodate the electricity generated. The applicant will liaise with National Grid who own and manage the transmission network in England and Wales or the relevant regional Distribution Network Operator (DNO) to secure a grid connection. It may be the case that the applicant has not received or accepted a formal offer of a grid connection from the relevant network operator at the time of the application, although it is likely to have applied for one and discussed it with them. This is a commercial risk the applicant may wish to take for a variety of reasons, although the SoS will want to be satisfied that there is no obvious reason why a grid connection would not be possible.	Paragraph 4.10.1 and 4.10.2 of Part 4.10 of EN-1 states that discharges or emissions which affect air quality, water quality, land quality or noise and vibration may be subject to separate, but complementary, pollution control regulation under the pollution control framework or other consenting and licensing regimes. A number of other consents and licences, including a variation to the existing Environmental Permit ('EP') for the Drax Power Station, will or may be required to build and operate the Proposed Scheme, and are set out in the Other Consents and Licences report (APP-035) submitted with the DCO Application. Paragraph 4.10.3 of EN-1 goes on to state that in considering an application for development consent, the SoS should focus on whether the development itself an acceptable use of the land is, and on the impacts of that use, rather than the control of processes, emissions and discharges themselves. Paragraph 4.10.3 of EN-1 also states that the SoS: "should work on the assumption that the relevant pollution control regime and other environmental regulatory regimes, including those on land drainage, water abstraction and biodiversity, will be properly applied and enforced by the relevant regulator".
	Paragraph 4.10.2 of EN-1 states: The planning and pollution control systems are separate but complementary. The planning system controls the development and use of land in the public interest. It plays a key role in protecting and improving the natural environment, public health and safety, and amenity, for example by attaching conditions to allow developments which would otherwise not be environmentally acceptable to proceed, and preventing harmful development which cannot be made acceptable even through conditions. Pollution control is concerned with preventing pollution through the use of measures to prohibit or limit the releases of substances to the environment from different sources to the lowest practicable level. It also ensures that ambient air and water quality meet standards that guard against impacts to the environment or human health	The relevant pollution control authority is satisfied that potential releases can be adequately regulated under the pollution control framework; and
	Paragraph 4.10.3 of EN-1 states: In considering an application for development consent, the SoS should focus on whether the development itself is an acceptable use of the land, and on the impacts of that use, rather than the control of processes, emissions or discharges themselves. The SoS should work on the accumption that the relevant pollution	Regarding the first bullet point above, consultation has been undertaken with the relevant pollution control authorities as is detailed in further in this Table below, in the Consultation Report (APP-018), the PINS EIA Scoping Opinion (APP-116), and also within each relevant chapter of the ES. In respect of the second bullet point of paragraph 4.10.7, the ES demonstrates that there are no existing

themselves. The SoS should work on the assumption that the relevant pollution

control regime and other environmental regulatory regimes, including those on

sources of pollution in and around the Order Limits which would make the development unacceptable when

el di P M P re E a to th be a to th be a to th correct el till el ne to the total el till el ne to the total el till el ti	land drainage, water abstraction and biodiversity, will be properly applied and enforced by the relevant regulator. It should act to complement but not seek to duplicate them. Paragraphs 4.10.5 – 4.10.6 of EN-1 state: Many projects covered by this NPS will be subject to the Environmental Permitting (EP) regime, which also incorporates operational waste management requirements for certain activities. When a developer applies for an Environmental Permit, the relevant regulator (usually EA but sometimes the local authority) requires that the application demonstrates that processes are in place to meet all relevant EP requirements. In considering the impacts of the project, the SoS may wish to consult the regulator on any management plans that would be included in an Environmental Permit application. 4.10.6 Applicants are advised to make early contact with relevant regulators, including EA and the MMO, to discuss their requirements for environmental permits and other consents. This will help ensure that applications take account of all relevant environmental considerations and that the relevant regulators are able to provide	considered cumulatively alongside the Proposed Scheme. In addition, the CEMP which is secured via a requirement in Schedule 2 of the DCO (AS-076), seeks to control emissions and pollution during construction. Importantly paragraph 4.10.8 of EN-1 states that the SoS should not refuse consent on the basis of pollution impacts unless it has good reason to believe that any relevant necessary operational pollution control permits or licences, or other consents, will not subsequently be granted. The Applicant is not aware of any reason which would prevent the relevant permits, licences, or other consents from subsequently being granted. Summary Through consultation with the relevant pollution control authorities, the Applicant has sought to ensure that potential effects can be adequately regulated under the pollution control framework in accordance with paragraph 4.10.7 of EN-1.
M P re E ai to the bear of the period of the	Many projects covered by this NPS will be subject to the Environmental Permitting (EP) regime, which also incorporates operational waste management requirements for certain activities. When a developer applies for an Environmental Permit, the relevant regulator (usually EA but sometimes the local authority) requires that the application demonstrates that processes are in place to meet all relevant EP requirements. In considering the impacts of the project, the SoS may wish to consult the regulator on any management plans that would be included in an Environmental Permit application. 4.10.6 Applicants are advised to make early contact with relevant regulators, including EA and the MMO, to discuss their requirements for environmental permits and other consents. This will help ensure that applications take account of all relevant	pollution impacts unless it has good reason to believe that any relevant necessary operational pollution control permits or licences, or other consents, will not subsequently be granted. The Applicant is not aware of any reason which would prevent the relevant permits, licences, or other consents from subsequently being granted. Summary Through consultation with the relevant pollution control authorities, the Applicant has sought to ensure that potential effects can be adequately regulated under the pollution control framework in accordance with
P T	timely advice and assurance to the SoS. Wherever possible, applicants are encouraged to submit applications for Environmental Permits and other necessary consents at the same time as applying to the SoS for development consent. Paragraph 4.10.7 of EN-1 states: The SoS should be satisfied that development consent can be granted taking full account of environmental impacts. Working in close cooperation with EA and/or the pollution control authority, and other relevant bodies, such as the MMO, Natural England, the Countryside Council for Wales, Drainage Boards, and water and sewerage undertakers, the SoS should be satisfied, before consenting any potentially polluting developments, that: — the relevant pollution control authority is satisfied that potential releases can be adequately regulated under the pollution control framework; and — the effects of existing sources of pollution in and around the site are not such that the cumulative effects of pollution when the proposed development is added would make that development unacceptable, particularly in relation to statutory environmental quality limits Paragraph 4.10.8 of EN-1 states: The SoS should not refuse consent on the basis of pollution impacts unless it has good reason to believe that any relevant necessary operational pollution control permits or licences or other consents will not subsequently be granted.	
(Part 4.11 of EN-1) Hele	Paragraph 4.11.1 of EN-1 states: HSE is responsible for enforcing a range of occupational health and safety legislation some of which is relevant to the construction, operation and decommissioning of energy infrastructure. Applicants should consult with the Health and Safety Executive (HSE) on matters relating to safety.	Chapter 17 (Major Accidents and Disasters) of the ES (APP-053) addresses the potential vulnerability of the Proposed Scheme to the risk of major accidents and/or disasters ('MA&D') as required by the EIA Regulations 2017. In accordance with the relevant policies of EN-1, the Applicant has consulted with the HSE on matters

Policy Policy Text Paragraphs 4.11.2 – 4.11.3 of EN-1 state: Some technologies, for example the use of salt caverns for underground gas storage, will be regulated by specific health and safety legislation. The application of these regulations is set out in the technology-specific NPSs where relevant. Some energy infrastructure will be subject to the Control of Major Accident Hazards (COMAH) Regulations 1999. These Regulations aim to prevent major accidents involving dangerous substances and limit the consequences to people and the environment of any that do occur. COMAH regulations apply throughout the life cycle of the facility, i.e. from the design and build stage through to decommissioning. They are enforced by the Competent Authority comprising HSE and the EA acting jointly in England and Wales (and by the HSE and Scottish Environment Protection Agency acting jointly in Scotland). The same principles apply here as for those set out in the previous section on pollution control and other environmental permitting regimes. Paragraph 4.11.4 of EN-1 states: Applicants seeking to develop infrastructure subject to the COMAH regulations should make early contact with the Competent Authority. If a safety report is required it is important to discuss with the Competent Authority the type of information that should be provided at the design and development stage, and what form this should take. This will enable the Competent Authority to review as much information as possible before construction begins, in order to assess whether the inherent features of the design are sufficient to prevent, control and

it meets the safety objectives described above.

mitigate major accidents. The SoS should be satisfied that an assessment has

been done where required and that the Competent Authority has assessed that

Compliance with NPS

Consultation Report (APP-018) submitted alongside the DCO Application. No objection has been raised and matters raised in HSE's Section 42 Consultation Comments have been addressed.

Chapter 17 of the ES confirms that the Proposed Scheme is considered to be potentially vulnerable to the following risk events:

Construction Phase and Decommissioning

- a. Fluvial flooding;
- b. Major Accident Hazard (MAH) Chemical Sites;
- c. Dam breaches;
- d. Transport accidents road; and
- e. Flood defence failure.

Operational Phase

- a. Fluvial flooding:
- b. MAH Chemical Sites;
- c. Dam breaches:
- d. Air pollution accidents; and
- e. Flood defence failure.

The above potential MA&D Events are assessed to potentially impact upon the BECCS Plant, Carbon Dioxide Processing and Compression Plant. Both sections of plant are located within the Drax Power Station Site. The assessment is set out at Appendix 17.2 (Environmental Statement Risk Record) of the ES (APP-172).

The Risk Event types to which the Proposed Scheme is not considered to be vulnerable, are shown in the Long List of potential major accident(s) and / or disaster(s) events provided in Appendix 17.1 (Major Accidents and Disasters Long List) of the ES (APP-171).

The assessment at Appendix 17.2 (Risk Record) of the ES (APP-172) identifies two MA&D Events which the Proposed Scheme may be vulnerable to during the construction phase and decommissioning, and three MA&D Events are identified with the potential to impact the operational phase.

The MA&D assessment adopts a different assessment approach from other topic chapters whereby all mitigation measures are collectively considered at the same time to determine whether potential MA&D events to which the Proposed Scheme may be vulnerable are managed to be as low as reasonably practical ('ALARP').

Therefore, Chapter 17 (MA&D) of the ES (APP-053) confirms that based on the assumptions and mitigation measures (presented in Appendix 17.2 of the ES) as put forward in other relevant ES chapters, it is considered that the identified potential construction, operational and decommissioning phase major accident(s) and / or disaster(s) events would all be managed to be ALARP.

Therefore, the assessment concludes that there is no likely requirement for secondary mitigation measures, as based on the information currently available in other relevant ES chapters, it is deemed that the risks are anticipated to be ALARP.

Policy	Policy Text	Compliance with NPS
		Summary The above demonstrates that the Applicant has taken all relevant matters into account to provide appropriate safety provisions. The Applicant therefore considers it has been sufficiently demonstrated that the Proposed Scheme accords with the relevant policies of Part 4.11 of EN-1.
Hazardous Substances (Part 4.12 of EN-1)	Paragraph 4.12.1 of EN-1 states: All establishments wishing to hold stocks of certain hazardous substances above a threshold need Hazardous Substances consent. Applicants should consult the HSE at pre-application stage93 if the project is likely to need hazardous substances consent. Where hazardous substances consent is applied for, the SoS will consider whether to make an order directing that hazardous substances consent shall be deemed to be granted alongside making an order granting development consent94. The SoS should consult HSE about this.	Paragraph 4.12.1 of EN-1 states that all establishments wishing to hold stocks of certain hazardous substances above a certain threshold require Hazardous Substances Consent (HSC). EN-1 goes on to state that applicants should consult the HSE at the pre-application stage if a project is likely to need such consent. As stated in above, HSE has been consulted on the Proposed Scheme. The Consultation Report (APP-018) sets out the details of HSE's consultation response and how the Applicant has responded to it, as does Chapter 17 (MA&D) of the ES (APP-053). As set out in the Other Consents and Licences report (APP-035) submitted with the DCO Application, HSC may be required for storage of chemicals/hazardous materials in relation to the BECCS units. Chapter 17 of the ES details that the Applicant confirmed to HSE that an application for HSC will be submitted, if required. Nevertheless, embedded mitigation for the Proposed Scheme will be set out in a CEMP, which will be submitted to SDC for approval prior to construction works commencing. The approved CEMP would be implemented during the construction phase and would detail measures for the prevention of impacts to human health and the environment from contamination and the control of hazardous substances. A requirement in Schedule 2 of the Draft DCO (AS-076) secures the preparation and implementation of a CEMP, to be submitted to and approved by SDC, prior to the commencement of development. Summary The Applicant considers that the Proposed Scheme accords with Part 4.12 of EN-1 with regard to hazardous substances, as the Applicant has undertaken the relevant pre-application consultation required by EN-1 and taken all relevant matters into account to provide appropriate hazardous substance storage and precaution. The Applicant therefore considers the Proposed Scheme is in accordance with the relevant policies of Part
Health (Part 4.13 of EN-1)	Paragraph 4.13.1 of EN-1 states: Energy production has the potential to impact on the health and well-being ("health") of the population. Access to energy is clearly beneficial to society and to our health as a whole. However, the production, distribution and use of energy may have negative impacts on some people's health. Paragraph 4.13.2 of EN-1 states: As described in the relevant sections of this NPS and in the technology specific NPSs, where the proposed project has an effect on human beings, the ES should assess these effects for each element of the project, identifying any adverse health impacts, and identifying measures to avoid, reduce or compensate for these impacts as appropriate. The impacts of more than one development may	Paragraph 4.13.1 of EN-1 states that "Energy production has the potential to impact on the health and wellbeing ("health") of the population." Paragraph 4.13.2 goes on to state that proposals which have effects on human beings should have said effects assessed by the ES for each element of the project, identifying any adverse health impacts and measures to avoid, reduce or compensate the impacts as appropriate. Paragraph 4.13.2 also states that cumulative impacts of health should be considered, as the impacts of more than one development could affect people simultaneously. Paragraph 4.13.4 states: "The direct impacts on health may include increased traffic, air or water pollution, dust, odour, hazardous waste and substances, noise, exposure to radiation, and increases in pests."

Policy	Policy Text	
	affect people simultaneously, so the applicant and the SoS should consider th cumulative impact on health.	
	Paragraph 4.13.4 of EN-1 states:	
	New energy infrastructure may also affect the composition, size and proximity of the local population, and in doing so have indirect health impacts, for example it in some way affects access to key public services, transport or the use of ope space for recreation and physical activity.	

Compliance with NPS

The health of construction workers, operational workers, local residents and users of adjacent land has been considered and appropriately assessed on a topic-by-topic basis within the ES chapters as appropriate (in particular Chapters 6 (Air Quality) (APP-042), 7 (Noise and Vibration) (APP-043),

11 (Ground Conditions) (APP-047), 16 (Population, Health and Socio-Economics) (APP-052) and 18 (Cumulative Effects) (APP-054)).

Chapter 6 (Air Quality) of the ES (APP-042) confirms that the construction phase and decommissioning of the Proposed Scheme will have no significant effect on local air quality subject to the implementation of mitigation measures detailed in Appendix 6.2 (Construction and Decommissioning Dust Assessment) of the ES (APP-126). These mitigation measures would be included in the CEMP, which is secured by a requirement in Schedule 2 of the Draft DCO (AS-076). The assessment also confirms that the operational phase of the Proposed Scheme will have no significant effect on local air quality with respect to human health, neither in isolation nor cumulatively.

With regard to noise, Chapter 7 (Noise and Vibration) of the ES (APP-043) assesses that no significant environmental effects for noise or vibrations have been identified for the Proposed Scheme on nearby sensitive receptors with regard to construction, operational and decommissioning works or traffic. Any noise arising from the construction phase would be temporary, and suitably mitigated through the CEMP which is secured by a requirement in Schedule 2 of the Draft DCO (AS-076). As a result, no design, mitigation or enhancement measures are proposed.

Chapter 11 (Ground Conditions) of the ES (APP-047) sets out the mitigation measures which are secured through the CEMP, which will be implemented to mitigate risks to human health. This includes specific measures such as appropriate stockpile segregation, locations and containment measures and requirements for construction workers to wear PPE, amongst others.

Chapter 18 (Cumulative Effects) of the ES (APP-054) confirms the Proposed Scheme, in combination other projects, has the potential for temporary, adverse effects during the construction phase due to construction noise and changes in landscape. Ultimately, these impacts are temporary, and Chapter 18 considers that the implementation of mitigation measures in the CEMP and visual screening will reduce the effects.

Chapter 16 (Population, Health and Socio-economics) of the ES (APP-052) concludes that there may also be a temporary slight adverse cumulative effect on increased demand for accommodation and community facilities, and access to development land and businesses during the construction phase between the relevant other developments and the Proposed Scheme. However, this would not be significant.

As such, combined with the benefits of local employment opportunities in the area generated by the Proposed Scheme, which are set out in detail within Chapter 16 of the ES (APP-052) and below within this Table, the overall combined effect for the Proposed Scheme on health for the construction phase would be positive, and the slight, temporary adverse effects identified for the construction phase of the Proposed Scheme are considered by the Applicant to be outweighed by the positive cumulative impacts of sustainable job generation.

Information on sustainable job generation is set out in further detail further below in this Table and Chapter 16 of the ES.

National Policy Statement Compliance Tracker

Policy	Policy Text	Compliance with NPS
	Paragraph 4.14.2 states:	Summary The above assessment demonstrates that the Applicant has taken all applicable matters into account to provide appropriate mitigation for potential impacts to human health and wellbeing, as set out in the relevant chapters of the ES noted above. Cumulative impacts have also been considered, in accordance with paragraph 4.13.2. The Proposed Scheme is therefore considered by the Applicant to accord with the relevant policies of Part 4.13 of EN-1.
Common Law Nuisance and Statutory Nuisance (Part 4.14 of EN-1)	Paragraph 4.14.2 states: It is very important that, at the application stage of an energy NSIP, possible sources of nuisance under section 79(1) of the 1990 Act and how they may be mitigated or limited are considered by the SoS so that appropriate requirements can be included in any subsequent order granting development consent. (See Section 5.6 on Dust, odour, artificial light etc. and Section 5.11 on Noise and vibration.)	In line with APFP Regulation 5(2)(f), paragraph 4.14.2 of EN-1 states that it is very important that, at the application stage of an energy NSIP, possible sources of nuisance under section 79(1) of the Environmental Protection Act 1990 ('EPA'), and how they may be mitigated or limited, are considered by the SoS so that appropriate requirements can be included in any subsequent order granting development consent. The Applicant has prepared and submitted a Statutory Nuisance Statement (APP-034) in order to satisfy the requirements of APFP Regulation 5(2)(f) and paragraph 4.14.2 of EN-1. This Statement considers whether the Proposed Scheme could cause a statutory nuisance. The only matter addressed by the ES which has been assessed as likely to be significant for the Proposed Scheme and which may have a bearing on the EPA is visual amenity. However, it is demonstrated in Section 3 of the Statutory Nuisance Statement (APP-034) that the Proposed Scheme would have no significant visual amenity effects that would constitute 'nuisance' effects following the implementation of the identified secondary mitigation measures. Other potential nuisance aspects have been considered in Section 4 of the Statutory Nuisance Statement and through embedded mitigation no statutory nuisance effects are considered likely to occur. As noted above, the operation of the Proposed Scheme would be regulated by the EA through a variation to the existing Environmental Permit. Summary Based on the reasons set out above, the Applicant considers that the Proposed Scheme is in accordance with Part 4.14 of EN-1, as the Applicant has taken all applicable matters into account to limit nuisance and provide appropriate mitigation where necessary. The Applicant therefore considers the Proposed Scheme to be in accordance with the relevant policies of Part 4.14 of EN-1.
Security Considerations (Part 4.15 of EN-1)	Paragraph 4.15.1 of EN-1 states: National security considerations apply across all national infrastructure sectors. Overall responsibility for security of the energy sector lies with DECC. It works closely with Government security agencies including the Centre for the Protection of National Infrastructure (CPNI) to reduce the vulnerability of the most 'critical' infrastructure assets in the sector to terrorism and other national security threats. The Office for Civil Nuclear Security (OCNS) is the security regulator for the UK's civil nuclear industry. Paragraph 4.15.2 of EN-1 states:	Paragraph 4.15.1 of EN-1 explains that national security considerations apply across all national infrastructure sectors. Overall responsibility for security of the energy sector lies with BEIS. Paragraph 4.15.2 of EN-1 notes that Government policy is to ensure that, where possible, proportionate protective security measures are designed into new infrastructure at an early stage in the project development. Where applications for development consent for infrastructure relate to potentially critical infrastructure, there may be national security considerations. Paragraph 4.15.4 states:

Policy	Policy Text	Compliance with NPS
	Government policy is to ensure that, where possible, proportionate protective security measures are designed into new infrastructure projects at an early stage in the project development. Where applications for development consent for infrastructure covered by this NPS relate to potentially 'critical' infrastructure, there may be national security considerations. Paragraph 4.15.4 of EN-1 states: The applicant should only include sufficient information in the application as is necessary to enable the SoS to examine the development consent issues and make a properly informed decision on the application.	"The applicant should only include sufficient information in the application as is necessary to enable the [Secretary of State] to examine the development consent issues and make a properly informed decision on the application."
		The Proposed Scheme would largely be located within the Drax Power Station Site, which is already subject to security management such as gate house control at the entrance to Drax Power Station, access
		control to buildings, remote monitoring (CCTV) and manned monitoring (patrolling and visibility. The Design Framework (APP-195) sets out other security measures which will be implemented at the Drax Power Station Site, including lighting. A Draft Lighting Strategy (APP-184) is submitted with the DCO application and has been prepared to provide a framework for the final lighting design for the Proposed Scheme for the operational phases. The production of the final Lighting Strategy to be approved by the Local Authority is secured by a requirement in Schedule 2 of the DCO (AS-076).
		Summary
		The above assessment demonstrates that sufficient information regarding security is provided at this stage, and that detailed measures are secured through requirements within Schedule 2 of the DCO.
		The Applicant therefore considers that the Proposed Scheme is in accordance with the relevant policies of Part 4.15 of EN-1.
Air Quality and	Paragraphs 5.2.6 and 5.2.7 of EN-1 state:	<u>Air Quality</u>
Emissions (Part 5.2 of EN-1 and Part 2.5.37-2.5.45 of EN-3)	Where the project is likely to have adverse effects on air quality the applicant should undertake an assessment of the impacts of the proposed project as part of the Environmental Statement (ES). The ES should describe: - Any significant air emissions, their mitigation and any residual effects distinguishing between the project stages and taking account of any significant emissions from any road traffic generated by the project; - The predicted absolute emission levels of the proposed project, after mitigation methods have been applied;	In accordance with paragraphs 5.2.6 and 5.2.7 of EN-1, Chapter 6 (Air Quality) of the ES (document reference APP-0426.1.6) reports the outcome of the assessment of likely significant environmental effects arising from the Proposed Scheme on air quality. It includes identification of potential impacts on air quality as a result of the Proposed Scheme, details the design, mitigation and enhancement measures that have been identified, reports the assessment of the significant effects of the Proposed Scheme and details the monitoring that should be carried out for the Proposed Scheme. It also sets out the air quality baseline and relative changes in concentrations as a result of the Proposed Scheme, as well as the absolute emission levels of the Proposed Scheme with primary mitigation in place.
	 Existing air quality levels and the relative change in air quality from existing levels; and Any potential eutrophication impacts. Paragraph 5.2.9 of EN-1 states: The SoS should generally give air quality considerations substantial weight where a project would lead to a deterioration in air quality in an area or leads to a new area where air quality breaches any national air quality limits. However, air quality considerations will also be important where substantial changes in air quality levels are expected, even if this does not lead to any breaches of national air quality limits Paragraph 5.2.10 of EN-1 states: In all cases the SoS must take account of any relevant statutory air quality limits. Where a project is likely to lead to a breach of such limits the developers should 	HDV flows (20 AADT) on any road link are predicted to be below the respective IAQM / EPUK screening criteria for both within and outside of an AQMA. As such, the change in traffic arising from the construction and operational phases will have no effect on local air quality. The impact of potential emissions from construction and operational road traffic has therefore been scoped out of the air quality assessment, as agreed with PINS in the Scoping Opinion dated 26 February 2021 (document reference 6.3.1.2APP-116), provided that appropriate evidence could be provided, as is presented in the relevant chapters of the ES.

Policy Text Policy allow the proposal to proceed. In the event that a project will lead to noncompliance with a statutory limit the SoS should refuse consent. Paragraph 5.2.11 of EN-1 states: The SoS should consider whether mitigation measures are needed both for operational and construction emissions over and above any which may form part of the project application. A construction management plan may help codify mitigation at this stage. The policies at Part 2.5.37-2.5.45 of EN-3 relate to air quality and emissions considerations specific to biomass/ waste combustion plant. Paragraph 2.5.40 of EN-3 states: The applicant's EIA should include an assessment of the air emissions resulting from the proposed infrastructure and demonstrate compliance with the relevant regulations (see Section 5.2 of EN-1). Paragraph 2.5.42 of EN-3 states: The pollutants of concern arising from the combustion of waste and biomass include NOx 14, Sox 15, particulates and CO₂. Paragraph 2.5.44 of EN-3 states: ... where a proposed biomass combustion generating station meets the requirements of LCPD and will not exceed the local air quality standards, the SoS should not regard the proposed biomass infrastructure as having adverse impacts on health. Paragraph 2.5.45 of EN-3 states: Abatement technologies should be those set out in the relevant sector guidance notes as produced by the EA. The EA will determine if the technology selected for the waste/ biomass combustion generating station is considered Best Available Technique (BAT) and therefore the SoS does not need to consider equipment selection in its determination process.

Compliance with NPS

Construction Phase and Decommissioning

The Proposed Scheme has the potential to affect air quality as a result of uncontrolled emissions of fugitive dust, including PM₁₀, generated by construction phase and decommissioning phase activities associated with the Proposed Scheme with the potential to cause dust soiling of properties and / or impact human health at identified sensitive receptor locations within the construction phase assessment study area (document reference APP-0686.2.6.1). If the emissions of dust and particulate matter are transported beyond the Order Limits, the Proposed Scheme could have an adverse impact on local air quality.

Larger dust particles fall out of the atmosphere quickly after initial release, and therefore tend to settle in proximity to the source of emission. Dust, therefore, is unlikely to cause long-term or widespread changes to local air quality. However, its deposition on property and cars can cause 'soiling' and discolouration, which may be perceived as amenity loss or damage caused, thus resulting in nuisance complaints. These impacts are, however, temporary.

The construction phase dust risk assessment therefore focusses on levels of the smaller particles of dust (not exceeding 10 µm in aerodynamic diameter), which are known as particulate matter (PM₁₀). These are assessed with respect to human receptors. The dust and PM₁₀ sources include demolition, earthworks, construction and trackout. The potential dust emission magnitude from each of these sources is classed as 'large' (for a variety of reasons set out in Chapter 6 of the ES (document reference APP-0426.1.6)).

Works associated with the Flood Compensation Area (FCA) solution also have the potential to generate fugitive dust emissions during the construction phase. However, given that there will be no high sensitivity receptors within 350m of the FCA Order Limits, (as defined by Institute of Air Quality Management guidance), any impact can be suitably addressed through mitigative measures. Whilst some non-road mobile machinery would be required to excavate and move material within the site, emissions from these would be intermittent and short-term and, given the absence of high sensitivity receptors within 350 m of the FCA Order Limits, there would be no change to impacts on local air quality. All excavated material would be reused within the FCA Order Limits and would not need to be transported off site. Whilst some non-road mobile machinery would be required to excavate and move material within the site, emissions from these would be intermittent and short-term, and, given the absence of high sensitivity receptors within 350 m of the FCA Order Limits, there would be no change to impacts on local air quality.

The findings of the dust risk assessment have informed the proposed mitigation measures which are detailed in the REAC (document reference 6.5AS-092). Mitigation measures include, but are not limited to, a requirement for a CEMP which is secured by Schedule 2 (Requirements) of the DCO (document reference AS-0763.1). An Outline CTMP at Appendix 5.1 of the ES (document reference AS-0866.3.5.1) and Framework CWTP at Appendix 5.2 of the ES (document reference APP-1206.3.5.2) have been prepared to manage the impacts associated with construction worker traffic HDV movements, and Abnormal Indivisible Loads (AIL). These plans will also be secured by a requirement in Schedule 2 of the DCO (document reference 3.1AS-076).

To summarise the construction phase and decommissioning impact, with the application of the mitigation measures detailed in Appendix 6.2 (Construction and Decommissioning Dust Assessment) of the ES (document reference 6.3.6.2APP-126) and included in the REAC for the Proposed Scheme (document reference 6.5AS-092), construction phase and decommissioning activities will have no significant effect on local air quality.

When assessed against the relevant policies of EN-1 and EN-3, the Proposed Scheme is considered to be acceptable with regard to air quality effects during the construction phase and decommissioning.

Policy	Policy Text	Compliance with NPS
		Operational Phase
		The Proposed Scheme has the potential to affect air quality during the operational phase as a result of the following:
		 Emissions to air from the operation of the Proposed Scheme with the potential to impact human health and / or nitrogen-sensitive and acid-sensitive habitats at identified sensitive receptors within the Operation Phase Assessment Study Area (document reference APP-0696.2.6.2); and
		 Cumulative emissions to air from the operation of the Proposed Scheme and from other relevant projects with the potential to impact human health and / or nitrogen-sensitive and acid-sensitive habitats at identified sensitive receptors within the Operation Phase Study Area (cumulative impacts are set out in Chapter 18 (Cumulative Effects) of the ES (document reference APP-0546.1.18)).
		Chapter 6 (Air Quality) of the ES (document reference APP-0426.1.6) concludes that emissions in the With Proposed Scheme scenario will not result in significant air quality effects at human receptors.
		It concludes the following with regard to with internationally and nationally designated habitat sites, when considering the operation of BECCS on units 1 and 2 running at full load and units 3 and 4 running at midmerit:
		 Emissions of NO_x, NH₃, and SO₂ in the with Proposed Scheme scenario alone will not result in significant air quality effects at the assessed ecological receptors;
		 Contributions to nitrogen deposition associated with emissions in the with Proposed Scheme scenario alone will not result in significant air quality effects at the assessed ecological receptors;
		Acid deposition rates at sensitive habitats within the Lower Derwent Valley SAC, Thorne Moor SAC and SSSI, and SSSI designations at Breighton Meadows, Derwent Ings, and Barn Hill Meadows are above 1% of the respective critical load with regard to the modelled Process Contribution ('PC') in the with Proposed Scheme scenario. The background levels of acid deposition at the relevant sensitive habitats within these designated sites already exceed their respective critical loads, therefore the associated Proposed Scheme Predicted Environmental Concentration ('PEC') screening criterion will be exceeded. Significant effects relating to acid deposition at the aforementioned designated sites therefore cannot be screened out when considering the impacts of emissions from the Proposed Scheme alone; and
		Acid deposition rates at all other international, national, and local designated sites assessed are below the 1% criterion and, therefore, emissions in the with Proposed Scheme scenario alone will not result in significant air quality effects at those sites.
		To reduce potential impacts relating to acid deposition, mitigation in the form of operational changes to the to the Main Stack emissions parameters were applied, within the tolerance of engineering and operational constraints, to the 'With Proposed Scheme' scenario (the assessment presents concentrations for both the Baseline and With Proposed Scheme and Other Projects scenarios). The operational changes include:
		~ Reduce SO ₂ emissions by 40%, applied to the CCS Biomass Units; and
		∼ Increase exit temperature of flue gases from the CCS Units from 80°C to 103°C.
		The purpose of the above measures is to increase buoyancy in the flue gases leaving the Main Stack, thereby improving dispersion of all pollutants, and to reduce the concentration of SO ₂ being emitted, thus mitigating the with Proposed Scheme scenario contribution to acid deposition at the identified sensitive habitats.

Policy	Policy Text	Compliance with NPS
		The proposed mitigation is demonstrated to reduce the maximum impacts of the Proposed Scheme alone at Thorne Moor SAC and SSSI, and Derwent Ings SSSI to below the 1% significance screening criterion.
		The proposed mitigation is demonstrated to reduce the maximum impacts in the with Proposed Scheme scenario alone at Lower Derwent Valley SAC and the SSSIs at Breighton Meadows and Barn Hill Meadows to 1.1% of the respective critical load at each of these sites, representing marginal exceedances of the 1% criterion. Chapter 8 (Ecology) of the ES (document reference APP-0446.1.8) concludes that based on air quality modelling and information presented in the Habitats Regulations Assessment report (document reference APP-1856.8.2) and given the minimal magnitude of the predicted impacts, effects on internationally and nationally designated sites are predicted to be negligible and not significant. It further concludes that the air quality impacts in the with Proposed Scheme scenario are minimal and would not lead to any perceptible changes in the condition of locally designated sites.
		In summary, the operational phase of the proposed scheme is not anticipated to have any likely significant effects on ecological receptors.
		GHG Emissions
		Introduction
		Chapter 15 of the ES (document reference APP-0516.1.15), reports the outcome of the assessment of likely significant environmental effects arising from the Proposed Scheme on climate, specifically greenhouse gas (GHG) emissions. This accords with both the EN-1 policies set out above, and the EIA Regulations 2017, which state "The EIA must identify, describe and assessthe direct and indirect significant effects of the proposed development onclimate" (Regulation 5(2))."
		Construction and Operational Phases
		The impact on climate assessment presented in Chapter 15 identifies that the GHG emissions from the construction phase of the Proposed Scheme are likely to have moderate, significant adverse effects. During operation, however, the Proposed Scheme would result in a reduction in emissions from the fifth carbon budget (2028-2032) in comparison to the baseline scenario, due to the sequestration of operational emissions.
		No intra and inter-project adverse cumulative effects are anticipated to arise from the Proposed Scheme as a result of GHG emissions.
		Proposed Scheme Lifecycle
		The lifecycle of the Proposed Scheme has also been considered, and Chapter 15 concludes that the lifecycle emissions for the Proposed Scheme are considered to have a significant beneficial effect as the sequestered emissions during operation occur over a longer timeframe and are greater than the construction phase adverse emissions, resulting in a net reduction in emissions in comparison to the baseline scenario.
		Mitigation
		Nevertheless, mitigation in the form of detailed design optimisation to reflect the carbon reduction hierarchy outlined in PAS 2080 (BSI, 2016) are included, thus secured, in the REAC (document reference 6.5AS_092), and are also secured via the detailed design requirement in Schedule 2 of the DCO (AS-076).
		Other mitigative measures will be implemented during the construction phase. These measures are set out in the REAC and will be included within a CEMP which is secured through a requirement in Schedule 2 of the DCO. The CEMP will include a variety of measures, such as the use of efficient construction processes

Policy	Policy Text	Compliance with NPS
		aligning with the carbon hierarchy outlined in PAS 2080 (BSI, 2016), and the implementation of a Site Waste Management Plan ('SWMP') and Materials Management Plan ('MMP').
		ConclusionSummary
		The assessment of likely significant effect on air quality arising from the Proposed Scheme has been undertaken in line with paragraphs 5.2.6 and 5.2.7 of EN-1, and wWhen assessed against the relevant policies of EN-1 and EN-3., the Applicant considers the Proposed Scheme is considered to be acceptable with regard to air quality effects during all phases of development. The Proposed Scheme and is therefore in accordance therefore accords with Part 5.2 of EN-1 and Part 2.5.37-2.5.45 of EN-3the policies of EN-1 and EN-3. and considered by the Applicant to be acceptable.
		Further information on ecological effects can be found further below and in Chapter 8 (Ecology) of the ES (document reference 6.1.8APP-044). The findings of the Habitats Regulations Assessment ('HRA') Report (document reference APP-1856.8.1) submitted with the Application and accordance with NPS policy relating to biodiversity impacts are also considered below.
		With regard to GHG emissions, Chapter 15 concludes that the proposed mitigation measures will reduce the any adverse effects during the construction phase of the Proposed Scheme, however, the impact of the mitigation measures are not quantifiable at this stage, as such, the residual effects of the Proposed Scheme remain unchanged, and therefore are assessed to be moderate, significant adverse in respect of GHG emissions. As aforementioned, during operation, the Proposed Scheme is assessed to have a significant beneficial effect.
Biodiversity and	Paragraph 5.3.3 of EN-1 states:	Introduction
Geological Conservation (Part 5.3 of EN-1)	ES clearly sets out any effects on internationally, nationally and locally designated sites of ecological or geological conservation importance, on protected species and on habitats and other species identified as being of principal importance for the conservation of biodiversity. The applicant should provide environmental information proportionate to the infrastructure where EIA is not required to help the SoS consider thoroughly the potential effects of a	Chapters 8 (Ecology) of the ES (document reference 6.1.8APP-044) and 11 (Ground Conditions) of the ES (document reference APP-0476.1.11) report the outcome of assessments undertaken of likely significant effects on biodiversity and geodiversity arising from the Proposed Scheme. A HRA report (document reference 6.8.1APP-185) has also been prepared to provide information to enable an appropriate assessment under the Conservation of Habitats and Species Regulations 2017 (as amended) (the Habitats Regulations) of the Proposed Scheme.
		Chapter 11 (Ground Conditions) of the ES (document reference 6.1.11APP-047) reports the outcome of the
	Paragraph 5.3.4 of EN-1 states:	assessment of likely significant environmental effects arising from the Proposed Scheme on Ground Conditions. In terms of geological conservation, Chapter 11 concludes that there are no RIGS within the
	The applicant should show how the project has taken advantage of opportunities to conserve and enhance biodiversity and geological conservation interests.	study area presented at Figure 11.1 (Ground Conditions Study Areas and Superficial Geology) of the ES (document reference APP-1086.2.11.1). Therefore, there would be no effects associated with geological
	Paragraphs 5.3.6 to 5.3.11 of EN-1 state:	conservation as a result of the Proposed Scheme. The below assessment therefore focusses on biodiversity conservation impact only.
	In having regard to the aim of the Government's biodiversity strategy the SoS should take account of the context of the challenge of climate change: failure to address this challenge will result in significant adverse impacts to biodiversity. The policy set out in the following sections recognises the need to protect the most important biodiversity and geological conservation interests. The benefits of nationally significant low carbon energy infrastructure development may include benefits for biodiversity and geological conservation interests and these	Construction Phase and Decommissioning Chapter 8 (Ecology) of the ES (document reference 6.1.8APP-044) and Appendix 4 (Ecology Survey Technical Note) of the PCAR (AS-052) identifies the following likely significant effects for ecology associated with the construction phase and decommissioning of the Proposed Scheme: Permanent or temporary removal or disturbance of habitats within the Order Limits (i.e. within the Drax Power Station Site and East Construction Laydown Area) and within the Off-Site Habitat Provision Area;

Policy Text

benefits may outweigh harm to these interests. The SoS may take account of any such net benefit in cases where it can be demonstrated.

As a general principle, and subject to the specific policies below, development should aim to avoid significant harm to biodiversity and geological conservation interests, including through mitigation and consideration of reasonable alternatives (as set out in Section 4.4 above); where significant harm cannot be avoided, then appropriate compensation measures should be sought.

In taking decisions, the SoS should ensure that appropriate weight is attached to designated sites of international, national and local importance; protected species; habitats and other species of principal importance for the conservation of biodiversity; and to biodiversity and geological interests within the wider environment.

The most important sites for biodiversity are those identified through international conventions and European Directives. The Habitats Regulations provide statutory protection for these sites but do not provide statutory protection for potential Special Protection Areas (pSPAs) before they have been classified as a Special Protection Area. For the purposes of considering development proposals affecting them, as a matter of policy the Government wishes pSPAs to be considered in the same way as if they had already been classified. Listed Ramsar sites should, also as a matter of policy, receive the same protection.

Many SSSIs are also designated as sites of international importance and will be protected accordingly. Those that are not, or those features of SSSIs not covered by an international designation, should be given a high degree of protection. All National Nature Reserves are notified as SSSIs.

Where a proposed development on land within or outside an SSSI is likely to have an adverse effect on an SSSI (either individually or in combination with other developments), development consent should not normally be granted. Where an adverse effect, after mitigation, on the site's notified special interest features is likely, an exception should only be made where the benefits (including need) of the development at this site, clearly outweigh both the impacts that it is likely to have on the features of the site that make it of special scientific interest and any broader impacts on the national network of SSSIs. The SoS should use requirements and/or planning obligations to mitigate the harmful aspects of the development and, where possible, to ensure the conservation and enhancement of the site's biodiversity or geological interest.

Paragraph 5.3.13 of EN-1 states:

Sites of regional and local biodiversity and geological interest, which include Regionally Important Geological Sites, Local Nature Reserves and Local Sites, have a fundamental role to play in meeting overall national biodiversity targets; contributing to the quality of life and the well-being of the community; and in supporting research and education. The SoS should give due consideration to

Compliance with NPS

- Habitat loss and disturbance for roosting, foraging and commuting bats, breeding and wintering birds,
 reptiles, great crested newts, terrestrial invertebrate, green-winged orchid
- Potential to lead to infringement of the legislation protecting badgers and their setts (Protection of Badgers Act (1992);
- Potential intermittent disturbance to breeding birds in the wider woodland habitats of the FCA;
- Potential impact pathway affecting the local otter population via water drainage; and
- Potential spread of Himalayan balsam and Cotoneaster sp.

To mitigate and compensate for the potential impacts on ecological receptors, a series of ecological surveys and assessment would be required prior to construction taking place. This would include walkovers to re-confirm the ecological baseline to ensure construction phase mitigation remains appropriate.

Additionally, precautionary working methods, ecological supervision including toolbox talks, sensitive site and vegetation clearance strategies and associated method statements, would be required during the construction phase and would be included in the CEMP for the Proposed Scheme.

These measures to minimise and mitigate the impacts of construction and decommissioning are recorded in greater detail in the REAC (AS-092), and are secured via a DCO requirement for land within the Order Limits, and via a Section 106 (S106) agreement for measures relating to land outside of the Order Limits.

With the implementation of mitigation measures, the Proposed Scheme is assessed to have the following likely residual significant effects at construction phase and decommissioning:

- A minor adverse effect in the short term on habitats and bats at a Local scale whilst planting matures and establishes during this period, and compensation measures have reached their target condition;
- A minor adverse effect on breeding and wintering birds at a District scale in the short term;
- A minor adverse, significant at a District scale in the short term prior to compensation measures reaching their target condition on terrestrial invertebrates; and
- A minor adverse, significant impact at a County scale in the short term on vascular plants until successful colonisation of the green-winged orchid receptor site.

There will be no significant effects on Statutory Designated Sites of International and National Importance during the construction phase and decommissioning.

Construction noise is not anticipated to have any likely significant effects on ecological receptors. This is detailed further in Chapter 7 (Noise and Vibration) of the ES (document reference APP-0436.1.7).

Operational Phase

The likely significant effects for ecology associated with the operational phase are identified as:

Impact on bats as a result of artificial lighting associated with operation of the Proposed Scheme which could deter light-sensitive species of bat from using habitats that are newly illuminated including those habitats that are adjacent to newly illuminated areas.

As aforementioned above, based on air quality modelling and information presented in the HRA report, Chapter 8 (Ecology) of the ES (document reference 6.1.8APP-044) and Chapter 6 (Air Quality) of the ES (document reference 6.1.6APP-042) and given the minimal magnitude of the predicted impacts, when mitigation is applied, effects on internationally and nationally designated sites are predicted to be negligible

Policy

Policy Text

such regional or local designations. However, given the need for new infrastructure, these designations should not be used in themselves to refuse development consent.

Paragraph 5.3.15 of EN-1 states:

Development proposals provide many opportunities for building-in beneficial biodiversity or geological features as part of good design. When considering proposals, the SoS should maximise such opportunities in and around developments, using requirements or planning obligations where appropriate.

Paragraph 5.3.17 of EN-1 states:

Other species and habitats have been identified as being of principal importance for the conservation of biodiversity in England and Wales and thereby requiring conservation action. The SoS should ensure that these species and habitats are protected from the adverse effects of development by using requirements or planning obligations. The SoS should refuse consent where harm to the habitats or species and their habitats would result, unless the benefits (including need) of the development outweigh that harm. In this context the SoS should give substantial weight to any such harm to the detriment of biodiversity features of national or regional importance which it considers may result from a proposed development.

Paragraph 5.3.18 of EN-1 states:

The applicant should include appropriate mitigation measures as an integral part of the proposed development. In particular, the applicant should demonstrate that:

- ~ During construction, they will seek to ensure that activities will be confined to the minimum areas required for the works:
- ~ During construction and operation best practice will be followed to ensure that risk of disturbance or damage to species or habitats is minimised, including as a consequence of transport access arrangements;
- Habitats will, where practicable, be restored after construction works have finished; and
- Opportunities will be taken to enhance existing habitats and, where practicable, to create new habitats of value within the site landscaping proposals.

Compliance with NPS

and not significant with respect to air quality, and would not lead to any perceptible changes in the condition of locally designated sites.

In terms of primary mitigation, Chapter 3 (Consideration of Alternatives) of the ES (document reference 6.1.3APP-039) demonstrates how alternate layouts were considered to minimise detrimental impacts on, and offer opportunities to, biodiversity. Consequently, refinements were made to the Order Limits, which minimised impact relating to trees and the River Ouse.

In terms of mitigation proposed through design, no additional measures over and above the primary mitigation measures outlined in Chapter 2 (Site and Project Description) of the ES (document reference 6.1.2APP-038) would be required.

In respect of other mitigation measures, proposed actions and commitments are set out in the REAC (AS-092) and include a requirement (set out in Schedule 2 of the DCO (document reference 3.1AS-076)) for a CEMP with the following measures identified to be included:

- Existing mature vegetation would be avoided and retained wherever possible, as identified on the Outline Landscape and Biodiversity Strategy - Volume 2 - Figure 1: Landscape and Biodiversity Mitigation Plan (APP-181) and Figure 2: Off-site Habitats Provision Area (APP-182); and 2: Landscape Mitigation Plan (document reference 6.6.1);
- Construction compounds and laydown and demolition areas would be surrounded by hoardings to reduce visual effects due to the presence of construction traffic, plant and equipment, as well as demolition of existing and construction of built form; and
- ~ Upon completion, laydown areas and site compounds would be returned to their original use.

Relating to the potential impact on bats as a result of external lighting during all phases of the Proposed Scheme, a Draft Lighting Strategy (document reference 6.7APP-184) has been prepared which explains that impact on bats will be mitigated through a sensitive lighting design. This will be prepared at the detailed design phase for the Proposed Scheme, as secured by a Requirement. This will include a written scheme for the temporary external lighting to be installed for the purposes of construction, and a written scheme for the permanent external lighting to be installed for the purposes of operation, to be approved by the relevant LPA as part of the CEMP. The detailed lighting strategy identified in the REAC is secured within the CEMP by a requirement within Schedule 2 of the draft DCO (document reference 3.1AS-076).

To mitigate the above-mentioned habitat loss for all relevant ecological receptors, the provision of compensatory habitats is proposed in an Off-Site Habitat Provision Area outside the Order Limits, referred to as Arthur's Wood and Fallow Field, located to the west of the Drax Power Station, and also within the Order Limits at the Habitat Provision Area to the north of the Drax Power Station and an area of farmland to the north of the East Construction Laydown Area. Indicative landscaping and habitat creation and enhancement proposals for these areas are provided in the OLBS (document reference 6.6AS-094) as displayed on Figures 1 and 2 of that document the OLBS (document references 6.6.1APP-181 and 6.6.2APP-182), with a detailed strategy to be brought forward at detailed design stage in accordance with the outline strategy, as secured by a DCO requirement. Please refer to the OLBS for details of the longterm management and maintenance of these new habitat and landscape areas.

With the implementation of mitigation measures, the Proposed Scheme is assessed to have the following likely residual significant effects at construction phase and decommissioning:

Policy	Policy Text	Compliance with NPS
		 A minor adverse effect in the short term on habitats and bats at a Local scale whilst planting matures and establishes during this period, and compensation measures have reached their target condition;
		~ A minor adverse effect on breeding and wintering birds at a District scale in the short term;
		 minor adverse, significant at a District scale in the short term prior to compensation measures reaching their target condition on terrestrial invertebrates;
		A minor adverse, significant impact at a County scale in the short term on vascular plants until successful colonisation of the green-winged orchid receptor site.
		There will be no significant effects on Statutory Designated Sites of International and National Importance during the construction phase and decommissioning.
		Operational Phase
		In regard to the operational phase of development, the Proposed Scheme is assessed to have the following likely residual significant effects with the implementation of mitigation measures applied:
		~ A minor, positive effect on habitats at a Local scale in the long term;
		 A minor, positive residual effect significant at a Local scale in the long term for bats and breeding and wintering birds;
		~ A minor, positive effect at a District scale in the long term for terrestrial invertebrates.
		There will be no significant effects on Statutory Designated Sites of International and National Importance in the operational phase.
		Cumulative Impact
		In respect of cumulative impact, Chapter 18 (Cumulative Effects) of the ES (document reference 6.1.18APP-054) presents an assessment of intra-project combined effects and inter-project cumulative effects for the Proposed Scheme in relation to ecology.
		At the construction phase and decommissioning, it is concluded that provided each cumulative project applies appropriate mitigation measures via a CEMP (or similar), including other specific mitigation measures, it is predicted that there would be no significant cumulative effects on important ecological features.
		At the operational phase of the Proposed Scheme, potential cumulative impacts are primarily associated with operational emissions to air, which include increased nitrogen and acid deposition and elevated concentrations of NH ₃ . However, as stated above, Chapter 6 (Air Quality) of the ES (document reference 6.1.6APP-042) concludes that Nitrogen (NO _x), Sulphur Dioxide (SO ₂) and ammonia (NH ₃) in the Proposed Scheme & and Other Projects scenario will lead to no significant effects from an air quality perspective at the assessed ecological receptors.
		Habitat loss and operational lighting as part of the Scotland to England Green Link 2 Project (planning reference: 2021/0450/SCP) could disturb and displace important ecological features assessed as part of the Proposed Scheme. The lighting strategy for the Proposed Scheme, which is secured as a requirement in the DCO, and a sensitive lighting design, which will likely be required in accordance with planning policy, as part of 2021/0450/SCP, would ensure disturbance and displacement to important ecological features is minimised.

Policy	Policy Text	Compliance with NPS
		The HRA report confirms that with mitigation measures applied, the Proposed Scheme would not have an adverse effect on the integrity of any of the European Sites assessed, either on its own or in-combination with other plans and projects.
		Therefore, no likely significant cumulative effect is identified.
		ConclusionSummary
		In accordance with paragraph 5.3.3 of EN-1, the ES clearly sets out any effects on internationally, nationally and locally designated sites of ecological or geological conservation importance, on protected species and on habitats and other species identified as being of principal importance for the conservation of biodiversity. In accordance with paragraphs 5.3.4 and 5.3.1.8 of EN-1, the ES has also clearly demonstrated how the project has sought to conserve and enhance biodiversity interests (through the consideration of alternatives and the proposed mitigation measures).
		Based on the above assessment and the information presented in Chapter 6 (Air Quality) of the ES (document 6.1.6APP-042), Chapter 8 (Ecology) of the ES (document reference 6.1.8APP-044), Chapter 18 (Cumulative Effects) of the ES (document reference 6.1.18APP-053), Chapter 11 (Ground Conditions) of the ES (document reference 6.1.11APP-047) and the HRA (document reference 6.8.1APP-185), the Applicant considers the Proposed Scheme is considered to accord with the relevant policies of Part 5.3 of EN-1.
Civil and Military Aviation and Defence Interests (Part 5.4 of EN-1)	Paragraph 5.4.1 of EN-1 states: Civil and military aerodromes, aviation technical sites, and other types of defence interests (both onshore and offshore) can be affected by new energy development. Paragraph 5.4.2 of EN-1 states: UK airspace is important for both civilian and military aviation interests. It is essential that the safety of UK aerodromes, aircraft and airspace is not adversely affected by new energy infrastructure. Paragraph 5.4.10 of EN-1 states: Where the proposed development may have an effect on civil or military aviation and/or other defence assets an assessment of potential effects should be set out in the ES (see Section 4.2). Paragraph 5.4.11 of EN-1 states: The applicant should consult the MoD, CAA, NATS and any aerodrome – licensed or otherwise – likely to be affected by the proposed development in preparing an assessment of the proposal on aviation or other defence interests. Paragraph 5.4.13 of EN-1 states: If any relevant changes are made to proposals during the pre-application and determination period, it is the responsibility of the applicant to ensure that the	No civil and military aviation and defence interests are expected to be affected by the Proposed Scheme, as is not anticipated that the Proposed Scheme will result in scale and massing changes to the Drax Power Station. However, it is possible that lighting or other undetermined factors may affect aviation operations within the region. Therefore, the Consultation Report (document reference 5.1APP-018) details that consultation with the following local airfields has been undertaken to seek views on aviation lighting and the potential for navigational hazard: Leeds Bradford Airport; Sherburn-in-Elmet Airfield; Full Sutton Airfield; The Real Aeroplane Company; Burn Gliding Club; Doncaster Sheffield Airport; Humberside Airport; and Sandtoft Airfield. Steps have been taken to consult with parties who may be impacted by the Proposed Scheme, in accordance with paragraph 5.4.11 of EN-1, however, no responses were received from the airports and airfields. Also, in line with paragraph 5.4.11 of EN-1, statutory consultation was undertaken with NATS, MoD and CAA. The Defence Infrastructure Organisation ('DIO'), on behalf of MoD, confirm in their consultation response

Policy	Policy Text	Compliance with NPS
	relevant aviation and defence consultees are informed as soon as reasonably possible.	the Proposed Scheme, nor do NATS. No changes relevant to aviation and defence consultees have been made during pre-application further to the initial statutory consultation undertaken with these parties
	Paragraph 5.4.14 of EN-1 states:	As no civil and military aviation and defence interests are expected to be affected, it is considered that the
	The SoS should be satisfied that the effects on civil and military aerodromes, aviation technical sites and other defence assets have been addressed by the applicant and that any necessary assessment of the proposal on aviation or defence interests has been carried out. In particular, it should be satisfied that the proposal has been designed to minimise adverse impacts on the operation and safety of aerodromes and that reasonable mitigation is carried out. It may also be appropriate to expect operators of the aerodrome to consider making reasonable changes to operational procedures. []	
	Paragraph 5.4.16 of EN-1 states:	
	There are statutory requirements concerning lighting to tall structures. Where lighting is requested on structures that goes beyond statutory requirements by any of the relevant aviation and defence consultees, the SoS should satisfy itself of the necessity of such lighting taking into account the case put forward by the consultees. The effect of such lighting on the landscape and ecology may be a relevant consideration.	
Flood Risk	Paragraph 5.7.4 of EN-1 states:	Introduction
(Part 5.7 of EN-1) Applications for energy and accompanied by a flow where an energy proflooding other than rive EA, Internal Drainage drainage problems.	Applications for energy projects of 1 hectare or greater in Flood Zone 1 in England or Zone A in Wales and all proposals for energy projects located in Flood Zones 2 and 3 in England or Zones B and C in Wales should be accompanied by a flood risk assessment (FRA). An FRA will also be required	Chapter 12 (Water Environment) of the ES (document reference 6.1.12APP-048) and its associated appendices assess the likely significant environmental effects resulting from the Proposed Scheme on the water environment, including flood risk, as well as water quality, groundwater, Water Framework Directive compliance and drainage.
	where an energy project less than 1 hectare may be subject to sources of flooding other than rivers and the sea (for example surface water), or where the EA, Internal Drainage Board or other body have indicated that there may be drainage problems. This should identify and assess the risks of all forms of flooding to and from the project and demonstrate how these flood risks will be managed, taking climate change into account.	A Flood Risk Assessment ('FRA') has been undertaken and is presented at Appendix 12.1 of the ES (document reference 6.3.12.1AS-088 and AS-090). The FRA has been undertaken in accordance with requirements of paragraph 5.7.5 of EN-1. The preparation of the FRA has involved significant consultation with relevant Statutory Authorities including the EA, NYCC, SDC and Selby Area IDB in line with paragraphs 5.7.7 to 5.7.10 of EN-1.
	Paragraph 5.7.5 of EN-1 states:	The FRA report summarises baseline flood risk information and identifies flood risk to the Proposed Scheme during the construction phase and the lifetime of the design, in addition to assessing potential risk beyond
	The minimum requirements for FRAs are that they should:	the design life of the Proposed Scheme. It also sets out potential flood risk to other areas caused by the
	 Be proportionate to the risk and appropriate to the scale, nature and location of the project; 	Proposed Scheme. The assessment undertaken informs mitigation measures to be implemented. The EA's Flood Map for Planning shows that the land within the Order Limits lies partially within Flood Zone 1, and partially in Flood Zone 3 but benefiting from the existing flood defences. Flood Zone 1 corresponds to
	 Consider the risk of flooding arising from the project in addition to the risk of flooding to the project; 	land having a less than 1 in 1000 (0.1%) annual exceedance probability ('AEP') of river or tidal flooding. Flood Zone 3 is defined as a land with a 1 in 100 (1%) or greater chance of flooding each year from rivers; or with
	 Take the impacts of climate change into account, clearly stating the development lifetime over which the assessment has been made; 	a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

preparing the proposal;

development lifetime over which the assessment has been made;

~ Be undertaken by competent people, as early as possible in the process of

Of the land within the Order Limits located in Flood Zone 3, the majority lies in Flood Zone 3a, and a lesser

area lies in Flood Zone 3b (considered to be a functional floodplain) and extends to the banks of the River

Policy Text Policy Consider both the potential adverse and beneficial effects of flood risk management infrastructure, including raised defences, flow channels, flood storage areas and other artificial features, together with the consequences of their failure: Consider the vulnerability of those using the site, including arrangements for safe access: Consider and quantify the different types of flooding (whether from natural and human sources and including joint and cumulative effects) and identify flood risk reduction measures, so that assessments are fit for the purpose of the decisions being made; Consider the effects of a range of flooding events including extreme events on people, property, the natural and historic environment and river and coastal processes: ~ Include the assessment of the remaining (known as 'residual') risk after risk reduction measures have been taken into account and demonstrate that this is acceptable for the particular project; ~ Consider how the ability of water to soak into the ground may change with development, along with how the proposed layout of the project may affect drainage systems; Consider if there is a need to be safe and remain operational during a worst case flood event over the development's lifetime; and Be supported by appropriate data and information, including historical information on previous events. Paragraphs 5.7.7 to 5.7.10 of EN-1 state: Applicants for projects which may be affected by, or may add to, flood risk should

arrange pre-application discussions with the EA, and, where relevant, other bodies such as Internal Drainage Boards, sewerage undertakers, navigation authorities, highways authorities and reservoir owners and operators. Such discussions should identify the likelihood and possible extent and nature of the flood risk, help scope the FRA, and identify the information that will be required by the SoS to reach a decision on the application when it is submitted. The SoS should advise applicants to undertake these steps where they appear necessary

If the EA has concerns about the proposal on flood risk grounds, the applicant should discuss these concerns with the EA and take all reasonable steps to agree ways in which the proposal might be amended, or additional information provided, which would satisfy the Environment Agency's concerns.

In determining an application for development consent, the SoS should be satisfied that where relevant:

The application is supported by an appropriate FRA;

but have not yet been addressed.

Compliance with NPS

Ouse. The River Ouse is tidally influenced at the location of the Proposed Scheme. The risk of flooding in this area from the River Ouse is therefore a combination of fluvial and tidal flooding. The EA have confirmed that the Proposed Scheme and its surroundings are protected up to the present day 1 in 200 year event by the flood defences located along the banks of the River Ouse. There is however residual risk associated with a breach of the flood defences. A breach of the existing flood defences is unlikely to happen as they are regularly inspected and maintained by the EA.

The Proposed Scheme is assessed to be at low risk of flooding from surface water, ground water, reservoirs and sewers.

Construction Phase

During the construction phase, the most likely potential significant flood risk identified is associated with a breach in the existing flood defences, which could impact the northern and southern ends of East Construction Laydown Area. Construction workers, as well as construction material and plant would be vulnerable to this impact. As such, the potential impact is mitigated by the following measures:

- ~ Appointed contractor would sign up to the Environment Agency's flood warning service to receive up to date flood information and warnings;
- No works would be carried out within the northern and southern ends of East Construction Laydown Area when there is a risk of breach of the existing flood defences (a significant flood event);
- No stockpiles, no hazardous materials and / or site cabins, plant and equipment would be placed in the northern and southern ends of East Construction Laydown Area; and
- Method Statement would be provided developed detailing the procedures for securing the Site and plant equipment for a flood event (breach of the defences), in particular with reference to safe working practises, harmful substances and fuels.

These mitigation measures are contained in the REAC and is secured within the CEMP (via a requirement in Schedule 2 to the DCO (document reference 3.1AS-076)).

Operational Phase

Hydraulic modelling of the River Ouse was undertaken to assess the risk of flooding to the Proposed Scheme during its design life (25 years). The methodology was agreed with the EA prior to being undertaken. The Hydraulic modelling is presented at Appendix K of the FRA (document reference AS-0886.3.12.1). During the design flood event (FT2) scenario, breach flooding is predicted to impact land within the Order Limits and the proposed infrastructure, including the Electrical Switch Room Building, the eastern unit of Solvent Regeneration System, the Carbon Dioxide Processing and Compression Plant, the Carbon Capture Wastewater Treatment Plant, the Solvent Storage and Make-up System and the Carbon Dioxide Delivery Terminal Compound.

Consequently, the risk of flooding to the operational phase of the Proposed Scheme is mitigated through design. The sensitive infrastructure will be set 800mm above the design flood levels and this is secured by the DCO Requirement requiring the Proposed Scheme to be carried out in accordance with the FRA. This provides sufficient mitigation for the sensitivity scenario and the breach event and is necessary as the Proposed Scheme is 'Essential Infrastructure' and must therefore remain open should a flood event occur, in accordance with paragraph 5.7.24 of EN-1.

Policy Policy Text

- ~ The Sequential Test has been applied as part of site selection;
- A sequential approach has been applied at the site level to minimise risk by directing the most vulnerable uses to areas of lowest flood risk;
- The proposal is in line with any relevant national and local flood risk management strategy;
- Priority has been given to the use of sustainable drainage systems (SuDs)
 (as required in the next paragraph on National Standards); and
- In flood risk areas the project is appropriately flood resilient and resistant, including safe access and escape routes where required, and that any residual risk can be safely managed over the lifetime of the development.

For construction work which has drainage implications, approval for the project's drainage system will form part of the development consent issued by the SoS. The SoS will therefore need to be satisfied that the proposed drainage system complies with any National Standards published by Ministers under Paragraph 5(1) of Schedule 3 to the Flood and Water Management Act 2010. In addition, the development consent order, or any associated planning obligations, will need to make provision for the adoption and maintenance of any SuDS, including any necessary access rights to property. The SoS should be satisfied that the most appropriate body is being given the responsibility for maintaining any SuDS, taking into account the nature and security of the infrastructure on the proposed site. The responsible body could include, for example, the applicant, the landowner, the relevant local authority, or another body, such as an Internal Drainage Board.

Paragraphs 5.7.12 to 5.7.18 of EN-1 state:

The SoS should not consent development in Flood Zone 2 in England or Zone B in Wales unless it is satisfied that the sequential test requirements have been met. It should not consent development in Flood Zone 3 or Zone C unless it is satisfied that the Sequential and Exception Test requirements have been met. The technology-specific NPSs set out some exceptions to the application of the sequential test. However, when seeking development consent on a site allocated in a development plan through the application of the Sequential Test, informed by a strategic flood risk assessment, applicants need not apply the Sequential Test, but should apply the sequential approach to locating development within the site.

Preference should be given to locating projects in Flood Zone 1 in England or Zone A in Wales. If there is no reasonably available site in Flood Zone 1 or Zone A, then projects can be located in Flood Zone 2 or Zone B. If there is no reasonably available site in Flood Zones 1 or 2 or Zones A & B, then nationally significant energy infrastructure projects can be located in Flood

Zone 3 or Zone C subject to the Exception Test. Consideration of alternative sites should take account of the policy on alternatives set out in Section 4.4 above.

Compliance with NPS

A sensitivity assessment was also undertaken to assess the impacts of increases in climate change beyond that required under standard Environment Agency guidance or an extension to the design life of the Proposed Scheme. Should the design life be extended beyond the 25 year period, it has been agreed with the Environment Agency that the Applicant would manage the risk by ensuring the Operational Management Plan / Emergency Operational Management Plan for the site is implemented in a timely manner to ensure a safe shut down and evacuation of the areas of the Proposed Scheme that would be at risk of flooding.

In any event, a **shutdown** of the Proposed Scheme would be required, in this scenario, given that it is an extension to the Existing Power Station, parts of which would be at risk of flooding during these events, thus preventing the operation of the Proposed Scheme.

If, after 20 years of the Proposed Scheme's operating life, it is considered likely that the Proposed Scheme would continue to operate, then discussions should commence with the Environment Agency to provide appropriate time for assessment, design and interventions to occur, to facilitate the on-going operation of the Proposed Scheme along with the Existing Power Station. This is set out in the Flood Risk Assessment, compliance which is secured by DCO Requirement.

With regard to risk to human health, the FRA confirms that the Drax Power Station has sufficient management plans in place to safely operate or shut down and evacuate the Drax Power Station should this be required, which is considered sufficient.

An increased built footprint at the Drax Power Station Site as a result of the Proposed Scheme will result in a minor loss of floodplain. An overall floodplain storage volume of 880sqm will be displaced by the Proposed Scheme and However, to ensure this will-loss have no significant adverse impact in terms of flood risk, it will be mitigated through the creation of the FCA to createing additional floodplain. It has been agreed with the Environment Agency (during a meeting on 23 August 2022), that floodplain compensation would be provided on a volume-for-volume basis as the floodplain is relatively flat within the Order Limits.

The FCA will be maintained by Drax Power Ltd throughout the lifetime of the Proposed Scheme to ensure the FCA remains suitable for the proposed use, as set out in the FRA which is secured by DCO Requirement. The delivery of the FCA is therefore secured via a requirement in Schedule 2 of the DCO (AS-076). The FCA will ensure that the Proposed Scheme will not result in a loss of floodplain and there will be no displacement of flood waters elsewhere, as such no increase in flood risk offsite is expected.

(a minimum floodplain area of 1,889m2 889sqm will be created) through the lowering of ground currently outside the floodplain on land controlled by the Applicant. This will ensure that the Proposed Scheme will not result in a loss of floodplain and there will be no displacement of flood waters elsewhere, as such no increase in flood risk offsite is expected.

Potential surface water run-off benefits have also been identified as the additional surface water runoff that will be generated as a result in the change in impermeable areas as part of the Proposed Scheme will be collected, stored and used within the cooling water process, with no increase in discharge off site, and run-off from other areas of the Drax Power Station will also be connected, where feasible. This is detailed in the surface water drainage strategy which has been produced for the Proposed Scheme in line with paragraph 5.7.18 and is provided in Appendix 12.3 (Surface Water Drainage Strategy) of the ES (document reference 6.3.12.3APP-162); and is secured pursuant to a DCO Requirement.

The Sequential Test

In accordance with paragraphs 5.7.12 to 5.7.18 of EN-1, the requirements of the Sequential and Exception Tests have been met.

Policy Text

If, following application of the sequential test, it is not possible, consistent with wider sustainability objectives, for the project to be located in zones of lower probability of flooding than Flood Zone 3 or Zone C, the Exception Test can be applied. The test provides a method of managing flood risk while still allowing necessary development to occur.

The Exception Test is only appropriate for use where the sequential test alone cannot deliver an acceptable site, taking into account the need for energy infrastructure to remain operational during floods. It may also be appropriate to use it whereas a result of the alternative site(s) at lower risk of flooding being subject to national designations such as landscape, heritage and nature conservation designations, for example Areas of Outstanding Natural Beauty (AONBs), Sites of Special Scientific Interest (SSSIs) and World Heritage Sites (WHS) it would not be appropriate to require the development to be located on the alternative site(s).

All three elements of the test will have to be passed for development to be consented. For the Exception Test to be passed:

- It must be demonstrated that the project provides wider sustainability benefits to the community that outweigh flood risk;
- The project should be on developable, previously developed land or, if it is not on previously developed land, that there are no reasonable alternative sites on developable previously developed land subject to any exceptions set out in the technology-specific NPSs; and
- A FRA must demonstrate that the project will be safe, without increasing flood risk elsewhere subject to the exception below and, where possible, will reduce flood risk overall.

To satisfactorily manage flood risk, arrangements are required to manage surface water and the impact of the natural water cycle on people and property. Paragraphs 5.7.20 to 5.7.25 of EN-1 state:

Site layout and surface water drainage systems should cope with events that exceed the design capacity of the system, so that excess water can be safely stored on or conveyed from the site without adverse impacts.

The surface water drainage arrangements for any project should be such that the volumes and peak flow rates of surface water leaving the site are no greater than the rates prior to the proposed project, unless specific off-site arrangements are made and result in the same net effect.

It may be necessary to provide surface water storage and infiltration to limit and reduce both the peak rate of discharge from the site and the total volume discharged from the site. There may be circumstances where it is appropriate for infiltration facilities or attenuation storage to be provided outside the project site, if necessary, through the use of a planning obligation.

The sequential approach should be applied to the layout and design of the project. More vulnerable uses should be located on parts of the site at lower

Compliance with NPS

The FRA deems the Sequential Test to be passed based on the following:

- The Proposed Scheme is directly connected to existing infrastructure and therefore cannot be located outside of the Drax Power Station. The Sequential Test area has therefore been limited to the Drax Power Station. This approach has been agreed in principle with SDC in May 2021;
- The Proposed Scheme cannot feasibly be located in lower flood zone areas at the Drax Power Station as the need for the Proposed Scheme is to enhance the existing Drax Power Station; and
- The location of the Proposed Scheme was selected following consideration of functionality, ability to connect to existing infrastructure and availability of space, and cannot, therefore, be relocated. The chosen layout and location is detailed further in Chapter 3 (Consideration of Alternatives) of the ES (document reference APP-0396.1.3).

Based on the above, the Sequential Test is therefore satisfied.

The Exception Test

The FRA considers all three parts of the Exception Test can be satisfied, in accordance with paragraph 5.7.17 of EN-1, for the following reasons:

- The Proposed Scheme provides wider sustainability benefits to the community that outweigh flood risk as it consists of carbon capture and storage and provides a sustainable approach to the production of energy, helping the Government achieve its Net Zero objectives, for which there is a recognised urgent need. The Proposed Scheme will also create employment opportunities and habitat creation and enhancement, with the Applicant targeting the delivery of 10% BNG as part of the Proposed Scheme and exploring how this may best be delivered. This is detailed further in the Needs and Benefits Statement. Such benefits in particular those relating to the decarbonisation of the energy sector outweigh the minimal flood risk to the Proposed Scheme. The benefits of the Proposed Scheme are detailed further in the Needs and Benefits Statement (document reference APP-0335.3);
- The permanent infrastructure to be constructed within the Drax Power Station Site is developable, previously developed land; and
- ~ The supporting FRA demonstrates the following:
 - The Proposed Scheme has been demonstrated to be safe for its lifetime (25 years) through the sensitive infrastructure being set 800mm above the design flood levels, enabling the Proposed Scheme to remain operational in the unlikely event of a breach of the flood defences;
 - The Proposed Scheme accounts for the vulnerability of its users, with appropriate management plans and procedures already in place, as a result of the existing nature of the Drax Power Station operations; and
 - The Proposed Scheme, with mitigation measures applied, will not increase flood risk within or outside of the Order Limits.

Based on the above, the requirements of the Exception Test are considered to be satisfied, in line with paragraph 5.7.16 of EN-1.

Cumulative Impact

With regard to cumulative effects, Chapter 18 (Cumulative Assessment) of the ES (document reference 6.1.18APP-054) does not identify any adverse impact on flood risk as a result of intra or inter-project cumulative effects.

Policy	Policy Text	Compliance with NPS
	probability and residual risk of flooding. Applicants should seek opportunities to use open space for multiple purposes such as amenity, wildlife habitat and flood storage uses. Opportunities should be taken to lower flood risk by reducing the built footprint of previously developed sites and using SuDS. Essential energy infrastructure which has to be located in flood risk areas should be designed to remain operational when floods occur. In addition, any energy projects proposed in Flood Zone 3b the Functional Floodplain (where water has to flow or be stored in times of flood), or Zone C2 in Wales, should only be permitted if the development will not result in a net loss of floodplain storage, and will not impede water flows.	Summary Based on the above and the assessments set out in the supporting documents submitted with the DCC Application, it is considered that the Proposed Scheme is in accordance with the relevant policies contained in Part 5.7 of EN-1. The Applicant therefore considers the Prosed Scheme and is therefore acceptable with regard to flood risk.
	The receipt of and response to warnings of floods is an essential element in the management of the residual risk of flooding. Flood Warning and evacuation plans should be in place for those areas at an identified risk of flooding. The applicant should take advice from the emergency services when producing an evacuation plan for a manned energy project as part of the FRA. Any emergency planning documents, flood warning and evacuation procedures that are required should be identified in the FRA.	
Historic Environment (Part 5.8 of EN-1 and 2.5.34 of EN-3)	Paragraphs 5.8.8 to 5.8.15 of EN-1 state: As part of the ES (see Section 4.2) the applicant should provide a description of the significance of the heritage assets affected by the proposed development and the contribution of their setting to that significance. The level of detail should be proportionate to the importance of the heritage assets and no more than is sufficient to understand the potential impact of the proposal on the significance of the heritage asset. As a minimum the applicant should have consulted the relevant Historic Environment Record (or, where the development is in English or Welsh waters, English Heritage or Cadw) and assessed the heritage assets themselves using expertise where necessary according to the proposed development's impact. Where a development site includes, or the available evidence suggests it has the potential to include, heritage assets with an archaeological interest, the applicant should carry out appropriate desk-based assessment and, where such desk-based research is insufficient to properly assess the interest, a field evaluation. Where proposed development will affect the setting of a heritage asset, representative visualisations may be necessary to explain the impact. The applicant should ensure that the extent of the impact of the proposed development on the significance of any heritage assets affected can be adequately understood from the application and supporting documents.	In accordance with paragraph 5.8.8 and 5.8.9 of EN-1, Chapter 10 (Heritage) of the ES (document reference 6.1.10APP-046) provides a description and assessment of the significance of heritage assets ('HA') and their settings affected by the Proposed Scheme. The Chapter then assesses the impacts of the Proposed Scheme on the identified HAs. Consultation has been undertaken with Historic England ('HE'), NYCC and SDC which has informed the assessment. Responses from the Applicant and consultees are detailed in Chapter 10. As agreed with HE and NYCC, a 10 km study area around the Order Limits has been applied for the assessment of medium to high value designated HAs only. Therefore, only Grade I and II* Listed Buildings were considered in the 10 km study area. A smaller 1 km study area around the Order Limits has been assessed for HAs of low value. The study area is defined in Figure 10.1 (Designated Heritage Assets) of the ES (document reference 6.2.10.1APP-105). Also agreed with HE and NYCC, a 500m study area has been applied for non-designated HAs and to establish the known historic environment context and the potential for previously unknown buried archaeological remains. This was considered acceptable due to the extensive archaeological work previously carried out within the Order Limits, including a geophysical survey and trial trench evaluation. The only HAs identified and scoped into the assessment are currently unknown buried HAs within the Order Limits and in the Habitat provision Area and the Off-site Habitat Provision Area, whose sensitivity / value is unknown, and Drax Augustinian Priory (1016857) located outside of the Order Limits, (identified to be of high value). Construction Phase and Decommissioning
	In considering applications, the SoS should seek to identify and assess the particular significance of any heritage asset that may be affected by the	The likely significant effects on HAs are only identified in association with the construction phase an
	proposed development, including by development affecting the setting of a	decommissioning and are only identified to not entitly impact unknown buried UAs. Likely significant offer

heritage asset, taking account of:

~ Evidence provided with the application;

proposed development, including by development affecting the setting of a

decommissioning and are only identified to potentially impact unknown buried HAs. Likely significant effects

Policy Text

- ~ Any designation records;
- ~ The Historic Environment Record, and similar sources of information;
- ~ The heritage assets themselves;
- ~ The outcome of consultations with interested parties; and
- Where appropriate and when the need to understand the significance of the heritage asset demands it, expert advice.

In considering the impact of a proposed development on any heritage assets, the SoS should take into account the particular nature of the significance of the heritage assets and the value that they hold for this and future generations. This understanding should be used to avoid or minimise conflict between conservation of that significance and proposals for development.

The SoS should take into account the desirability of sustaining and, where appropriate, enhancing the significance of heritage assets, the contribution of their settings and the positive contribution they can make to sustainable communities and economic vitality. The SoS should take into account the desirability of new development making a positive contribution to the character and local distinctiveness of the historic environment. The consideration of design should include scale, height, massing, alignment, materials and use. The SoS should have regard to any relevant local authority development plans or local impact report on the proposed development in respect of the factors set out in footnote 122.

There should be a presumption in favour of the conservation of designated heritage assets and the more significant the designated heritage asset, the greater the presumption in favour of its conservation should be. Once lost heritage assets cannot be replaced and their loss has a cultural, environmental, economic and social impact. Significance can be harmed or lost through alteration or destruction of the heritage asset or development within its setting. Loss affecting any designated heritage asset should require clear and convincing justification. [...]

Any harmful impact on the significance of a designated heritage asset should be weighed against the public benefit of development, recognising that the greater the harm to the significance of the heritage asset the greater the justification will be needed for any loss. Where the application will lead to substantial harm to or total loss of significance of a designated heritage asset the SoS should refuse consent unless it can be demonstrated that the substantial harm to or loss of significance is necessary in order to deliver substantial public benefits that outweigh that loss or harm.

Paragraphs 5.8.17 to 5.8.22 of EN-1 state:

Where loss of significance of any heritage asset is justified on the merits of the new development, the SoS should consider imposing a condition on the consent or requiring the applicant to enter into an obligation that will prevent the loss occurring until it is reasonably certain that the relevant part of the development is to proceed.

Compliance with NPS

could arise from groundworks in the ECLA and from any form of landscaping in the Habitat provision Area and the Off-site Habitat Provision Area.

As the value / sensitivity of the buried HAs is unknown, this has the potential to range from negligible to high, depending on their Archaeological Interest. There is the potential for moderate adverse impacts on unknown buried HAs located within the Habitat Provision Area and East Laydown Area within the undisturbed ground, and outside the areas of previous investigation, within the Order Limits. This would result in potential effects ranging from negligible to moderate (depending on the value of the HA).

Mitigation

To avoid the above impacts through design, any planting in the Habitat Provision Area (i.e., an area identified as of 'high potential') would avoid the boundary of the Drax Augustinian Priory (NHLE1016857).

In respect of mitigation, a suitable watching brief will be agreed by the Applicant with the LPA for any major ground disturbance works to ensure no archaeological remains are removed without record. In addition, any archaeological work will be undertaken in consultation with the relevant Archaeological Advisor. These measures will be secured through a Written Scheme of Investigation ('WSI'). The WSI is included in the REAC and is secured by a requirement in the DCO (document reference 3.1AS-076).

An Archaeological Clerk of Works (ACoW) will oversee all heritage aspects for the Proposed Scheme, and their role and responsibilities will be included in the CEMP, which is secured as a requirement in Schedule 2 of the DCO.

Chapter 10 acknowledges that additional targeted site-based archaeological investigation may be required. The scope and form will be agreed with the LPA archaeological officers. Dependant on the results of this investigation, further mitigation may be required. This is secured as part of the aforementioned DCO requirement.

Additionally, it is confirmed that should impacts occur on currently unknown but nationally important Below-Ground HAs related to Drax Augustinian Priory (1016857), preservation in-situ would be explored, where practicable.

With mitigation applied, thus and discovered buried HAs being subject to preservation in-situ or preservation by recording and reporting, likely significant effects on HAs would result in effects ranging from negligible to moderate adverse (significant) depending on the value of the asset.

Operational Phase

There will be no impact on HAs during the operational phase. Any potential impact is identified in the construction phase and decommissioning only.

Cumulative Impact

No specific cumulative effects are anticipated for cultural HAs during construction and operation of the Proposed Scheme.

Summary

Under paragraph 5.8.15 of EN-1, any harm has to be weighed against the public benefit associated with the Proposed Scheme. In particular, paragraph 2.5.34 of EN-3 states the SoS should take consider the positive role that large-scale renewable projects play in mitigating climate change, delivering energy security and the urgency of meeting the national targets for renewable energy supply and emissions reductions. The public

Policy Policy Text Compliance with NPS When considering applications for development affecting the setting of a benefits are summarised in Section 6.2 of this Planning Statement and explained in detail within the Needs designated heritage asset, the SoS should treat favourably applications that and Benefits Statement (document reference 5.3APP-033). The benefits of the Proposed Scheme are preserve those elements of the setting that make a positive contribution to, or numerous and include: better reveal the significance of, the asset. When considering applications that Delivering a significant contribution to meeting the UK's net zero by 2050 target; do not do this, the SoS should weigh any negative effects against the wider Potential to ensure the generation of renewable power to millions of UK homes and businesses; benefits of the application. The greater the negative impact on the significance of the designated heritage asset, the greater the benefits that will be needed to Delivering a significant contribution to UK industrial decarbonisation. justify approval. Connecting to and acting as an important enabler of the ZHC cluster; A documentary record of our past is not as valuable as retaining the heritage Helping to deliver Government policies and commitments on CCS; asset and therefore the ability to record evidence of the asset should not be a Comprising the efficient use of a brownfield site and infrastructure that is already used in relation to factor in deciding whether consent should be given. energy infrastructure; and Where the loss of the whole or a material part of a heritage asset's significance Job generation (see Chapter 16 (Population, Health and Socio-economics) of the ES (document is justified, the SoS should require the developer to record and advance reference 6.1.16APP-052) for details). understanding of the significance of the heritage asset before it is lost. The extent of the requirement should be proportionate to the nature and level of the asset's In light of these benefits, the potential adverse effects on unknown buried HAs is considered to be acceptable. Unknown HAs have the potential to range from negligible to high value. Should any HAs be identified, as set significance. Developers should be required to publish this evidence and deposit copies of the reports with the relevant Historic Environment Record. They should out above, Chapter 10 concludes that the Proposed Scheme could have adverse effects ranging from negligible to moderate adverse (significant). Any adverse effect could harm the significance of the HA. also be required to deposit the archive generated in a local museum or other However, as the Proposed Scheme will be progressed in line with a WSI (to be secured through a public depository willing to receive it. requirement in the DCO), with preservation though record undertaken via a watching brief, in consultation Where appropriate, the SoS should impose requirements on a consent that such with an Archaeological Adviser and under the responsibility of an ACoW, the Applicant considers that all work is carried out in a timely manner in accordance with a written scheme of possible appropriate procedures will be put in place for the suitable identification and treatment of any assets investigation that meets the requirements of this Section and has been agreed discovered, in line with paragraph 5.8.22 of EN-1. As such, the Applicant seeks to ensure the significance of in writing with the relevant Local Authority (where the development is in English a discovered HA is not substantially harmed. waters, the Marine Management Organisation and English Heritage, or where it is in Welsh waters, the MMO and Cadw) and that the completion of the exercise Based on the above, the Applicant considers that the Proposed Scheme will result in 'less than substantial is properly secured. harm' on the significance of any HA which may be identified during the construction phase and decommissioning. Where the SoS considers there to be a high probability that a development site may include as yet undiscovered heritage assets with archaeological interest, When considering the planning balance and weighing the benefits of the Proposed Scheme (set out above) alongside the potential less that significant harm to unknown HAs, the Applicant considers that the benefits the SoS should consider requirements to ensure that appropriate procedures are of the Proposed Scheme, especially in light of the current climate crisis and UK's need to lower carbon in place for the identification and treatment of such assets discovered during emission and decarbonise the industrial sector, greatly outweigh any harm which may occur. construction. Paragraph 2.5.34 of EN-3 states: Overall, the Proposed Scheme is considered to be in accordance with the policies contained within Part 5.8 of EN-1 and are therefore considered acceptable by the Applicant with regard to the effect of the Proposed In considering the impact on the historic environment as set out in Section 5.8 of Scheme on heritage. EN-1 and whether it is satisfied that the substantial public benefits would outweigh any loss or harm to the significance of a designated heritage asset, the SoS should take into account the positive role that large-scale renewable projects play in the mitigation of climate change, the delivery of energy security and the urgency of meeting the national targets for renewable energy supply and emissions reductions. Paragraphs 5.9.5 to 5.9.8 of EN-1 state: Landscape and Introduction The applicant should carry out a landscape and visual assessment and report it Visual In accordance with paragraphs 5.9.5 to 5.9.7 of EN-1 and 2.5.48 of EN-3, the Applicant has undertaken a in the ES. (See Section 4.2) A number of guides have been produced to assist landscape and visual impact assessment ('LVIA') at Chapter 9 (Landscape and Visual Impact) of the ES in addressing landscape issues. The landscape and visual assessment should (document reference 6.1.9APP-045). The assessment considers likely effects during all stages of the include reference to any landscape character assessment and associated

Policy	Policy Text
(Part 5.9 of EN-1 and Part 2.5.46 - 2.5.58 of EN-3)	studies as a means of assessing landscape impacts relevant to the proposed project. The applicant's assessment should also take account of any relevant policies based on these assessments in local development documents in England and local development plans in Wales.
	The applicant's assessment should include the effects during construction of the project and the effects of the completed development and its operation on landscape components and landscape character.
	The assessment should include the visibility and conspicuousness of the project during construction and of the presence and operation of the project and potential impacts on views and visual amenity. This should include light pollution effects, including on local amenity, and nature conservation.
	Landscape effects depend on the existing character of the local landscape, its current quality, how highly it is valued and its capacity to accommodate change. All of these factors need to be considered in judging the impact of a project on landscape. Virtually all nationally significant energy infrastructure projects will have effects on the landscape. Projects need to be designed carefully, taking account of the potential impact on the landscape. Having regard to siting, operational and other relevant constraints the aim should be to minimise harm to the landscape, providing reasonable mitigation where possible and appropriate.
	Paragraph 5.9.15 of EN-1 states:
	The scale of such projects means that they will often be visible within many miles of the site of the proposed infrastructure. The SoS should judge whether any adverse impact on the landscape would be so damaging that it is not offset by the benefits (including need) of the project.
	Paragraph 5.9.16 of EN-1 states:
	In reaching a judgment, the SoS should consider whether any adverse impact is temporary, such as during construction, and/or whether any adverse impact on the landscape will be capable of being reversed in a timescale that the SoS considers reasonable.
	Paragraph 5.9.17 of EN-1 states:
	The SoS should consider whether the project has been designed carefully, taking account of environmental effects on the landscape and siting, operational and other relevant constraints, to minimise harm to the landscape, including by reasonable mitigation.
	Paragraph 5.9.18 of EN-1 states:
	All proposed energy infrastructure is likely to have visual effects for many receptors around proposed sites. The SoS will have to judge whether the visual effects on sensitive receptors, such as local residents, and other receptors, such as visitors to the local area, outweigh the benefits of the project. Coastal areas are particularly vulnerable to visual intrusion because of the potential high

Compliance with NPS

Proposed Scheme on the landscape character and visual amenity of sensitive receptors, as well as considering relevant local planning policies, which are also assessed in this Appendix, below.

Paragraphs 5.9.8 and 5.9.18 of EN-1 acknowledge that all proposed nationally significant energy infrastructure is likely to have visual effects for many receptors around proposed sites, therefore, there is no expectation that all proposed energy NSIPs will be completely concealed from views.

In accordance with paragraph 5.8.17 of EN-1, the Proposed Scheme has been designed to protect the landscape and views where possible for the sensitive receptors identified. The design measures implemented are set out in the Design Framework (document reference 6.9APP-195) which sets out the iterative design process undertaken and provides a framework for the principles of the detailed design of the proposed Scheme, which are set out in the REAC (AS-092) and secured through a requirement in the DCO (AS-076).

Design measures include, but are not limited to:

- The sensitive location and design of lighting to reduce impacts on habitats and species. This will be finalised in line with the Draft Lighting Strategy (document reference 6.7APP-184) and is secured by a requirement in the DCO (document reference 3.1);
- Careful consideration of materiality and colour; and
- Vegetation Enhancement.

Construction Phase and Decommissioning

There are no significant effects reported for landscape during construction phase and decommissioning. With regard to visual impact, moderate adverse (significant) effects are anticipated for on the following identified sensitive receptors:

- Residents living in properties with western facing views (Pear Tree Avenue, Wren Hall Lane, Carr Lane and Main Road);
- Residents living in properties with eastern facing views (Camela Lane / Clay Lane);
- Residents in properties with north-east facing views from the settlement of Camblesforth;
- People travelling along PRoW with close proximity eastern facing views; and
- People travelling along PRoW with south western facing views.

Construction impacts on the above identified receptors will be mitigated through both primary and secondary mitigation measures. In terms of primary mitigation, the design of the Proposed Scheme has been carefully considered by the Applicant and will be delivered in accordance with the design principles set out in the Design Framework, which are also included in the REAC. The detailed design requirement in Schedule 2 of the DCO states that the design of the Proposed Scheme must be in accordance with the design principles captured in the REAC. These principles include the consideration of colour palette, which has been selected for the exterior of major buildings / structures has based on a combination of historic design guidance, known colours used within the Drax Power Station Site and observations made during site visits.

Additional measures are set out in the REAC, and will be delivered through a CEMP and DEMP, both to be secured through a requirement in Schedule 2 to the DCO (document reference 3.1AS-076). Mitigation measures include, but are not limited to:

Drax Bioenergy with Carbon Capture and Storage

Policy Policy Text visibility of development on the foreshore, on the skyline and affecting views along stretches of undeveloped coast. Paragraph 2.5.48 of EN-3 states: The SoS should be satisfied that the design of the proposed generating station is of appropriate quality and minimises adverse effects on the landscape character and quality. Paragraph 2.5.48 of EN-3 states: An assessment of the landscape and visual effects of the proposed infrastructure should be undertaken in accordance with the policy set out in 5.9 of EN-1. Paragraph 2.5.50 to 2.5.52 of EN-3 state: Good design that contributes positively to the character and quality of the area will go some way to mitigate adverse landscape/visual effects. Development proposals should consider the design of the generating station, including the materials to be used in the context of the local landscape. Mitigation is achieved primarily through aesthetic aspects of site layout and building design including size and external finish and colour of the generating station to minimise intrusive appearance in the landscape as far as engineering requirements permit. The precise architectural treatment will need to be sitespecific. The SoS should expect applicants to seek to landscape waste/biomass combustion generating station sites to visually enclose them at low level as seen from surrounding external viewpoints. This makes the scale of the generating station less apparent, and helps conceal its lower level, smaller scale features.

Earth bunds and mounds, tree planting or both may be used for softening the

visual intrusion and may also help to attenuate noise from site activities.

Compliance with NPS

- Retaining existing vegetation wherever possible and protection of said vegetation roots (as detailed within the OLBS (document reference 6.6AS-094) and identified on Figure 3 of the OLBS (document reference 6.6.2.3APP-183) and;
- No works (including temporary) would be carried out within the canopy of the spread of existing retained trees; and
- Construction compounds and laydown and demolition areas to be screened by hoardings to reduce visual effects resulting from construction traffic, plant and equipment, as well as demolition of existing and construction of built form, and these areas will be returned to their original use following completion of construction of the Proposed Scheme.

The likely significant visual effects identified will be reduces through application of the proposed mitigation measures, however the effects will still remain moderate adverse (significant). All effects will be temporary.

Operational Phase

There are no likely significant adverse effects identified for landscape and visual impact arising from the Proposed Scheme, in fact, the undergrounding of OHLs that currently cross over the A645 and A614 would result in a negligible beneficial effect, following construction.

However, Chapter 9 (Landscape and Visual ImpactAmenity) of the ES (document reference 6.1.9APP-045) also identifies indirect (not significant) benefits to landscape character and visual amenity arising from the Proposed Scheme through the various landscape enhancements / planting proposed in the ECLA, Habitat Provision Area and Off-site Habitat Provision Area (as detailed in the OLBS (document reference 6.6AS-094)).

Cumulative Effects

In terms of cumulative impact, the combined inter and intra-project effects are expected to be no greater than that above (i.e. moderate adverse (significant), temporary and short term). Cumulative impact is explained in detail in Chapter 18 (Cumulative Effects) of the ES (document reference 6.1.18APP-054).

Summary

In summary, following mitigation, there would be some moderate adverse (significant) visual effects during the construction phase and decommissioning of the Proposed Scheme, as set out in Chapter 9, as a result of the Proposed Scheme. Paragraph 5.9.8 of EN-1 states that:

"Virtually all nationally significant energy infrastructure projects will have effects on the landscape. Projects need to be designed carefully, taking account of the potential impact on the landscape. Having regard to siting, operational and other relevant constraints the aim should be to minimise harm to the landscape, providing reasonable mitigation where possible and appropriate."

Therefore, it is acknowledged that due to their nature, NSIPs are likely to have a landscape and / or visual impact, and having regard to paragraph 5.9.15 of EN-1, on balance it is not considered that the predicted adverse impact on visual amenity would be so damaging that it would not be offset by the benefits (including need) of the Proposed Scheme, given that the urgent need to address the impact of climate change and achieve net zero by 2050 in the UK. The Applicant therefore considers that the Proposed Scheme is therefore considered acceptable in respect of landscape and visual impact, and that it complies with the relevant policies of Part 5.9 of EN-1 and Part 2.5.46 - 2.5.58 of EN-3.

Policy	Policy Text
Land use including	Paragraph 5.10.5 of EN-1 states:
open space, Green infrastructure and Green Belt (Part 5.10 of EN-1	The ES (see Section 4.2) should identify existing and proposed land uses near the project, any effects of replacing an existing development or use of the site with the proposed project or preventing a development or use on a neighbouring site from continuing. Applicants should also assess any effects of precluding a new development or use proposed in the development plan.
and Part 2.5.36 of EN-3)	Paragraph 5.10.6 of EN-1 states:
	Applicants will need to consult the local community on their proposals to build on open space, sports or recreational buildings and land. Taking account of the consultations, applicants should consider providing new or additional open space including green infrastructure, sport or recreation facilities, to substitute for any losses as a result of their proposal. Applicants should use any up-to-date local authority assessment or, if there is none, provide an independent assessment to show whether the existing open space, sports and recreational buildings and land is surplus to requirements.
	Paragraph 5.10.8 of EN-1 states:
	Applicants should seek to minimise impacts on the best and most versatile agricultural land (defined as land in grades 1, 2 and 3a of the Agricultural Land Classification) and preferably use land in areas of poorer quality (grades 3b, 4 and 5) except where this would be inconsistent with other sustainability considerations. Applicants should also identify any effects and seek to minimise impacts on soil quality taking into account any mitigation measures proposed. For developments on previously developed land, applicants should ensure that they have considered the risk posed by land contamination.
	Paragraph 5.10.9 of EN-1 states:
	Applicants should safeguard any mineral resources on the proposed site as far as possible, taking into account the long-term potential of the land use after any future decommissioning has taken place.
	Paragraph 2.5.36 of EN-3 states:
	As most renewable energy resources can only be developed where the resource exists and where economically feasible, the SoS should not use a sequential approach in the consideration of renewable energy projects (for example, by giving priority to the re-use of previously developed land for renewable technology developments).

Compliance with NPS

Existing and Proposed Land Uses

In accordance with paragraph 5.10.5 of EN-1, the Chapter 2 (Site and Project Description) of the ES (document reference 6.1.2APP-038) details the existing and proposed land uses within and around the Order Limits. Within the Order Limits are the following:

- Drax Power Station Site this area comprises land located within the existing Drax Power Station. The land
- Construction Laydown Areas these include the following:
 - East Construction Laydown Area, which is predominantly arable fields and hedgerow; and
 - The Drax Power Station Site Construction Laydown Areas, which are several parcels of land within the Drax Power Station Site; and
- Habitat Provision Area this area consists of mainly arable fields and hedgerows;
- Floodplain Compensation Area ('FCA') this area comprises land required to mitigate against the minor loss of floodplain due to construction of the Proposed Scheme within the Drax Power Station Site. The FCA comprises primarily species-poor semi-improved grassland with intermittent scattered and dense scrub along the north, west and eastern field boundaries; and
- Overhead Line Areas these areas comprise existing electrical and telecommunications overhead lines which will be diverted to facilitate the delivery of AILs to the Site. These areas are set within an urban setting.

Land within the existing Drax Power Station will remain in industrial use throughout the construction and operational phases of the Proposed Scheme.

The East Construction Laydown Area will be used as a temporary construction compound and will be used for laydown of plant, equipment and materials, light fabrication, storage of topsoil from the area and as an overflow car park during construction. This area will be reinstated to arable use following completion of the construction period. A Soil Handling Management Plan ('SHMP') is secured through the CEMP, and will secure the Applicant's commitment to return the land to the same agricultural capability as before construction. Impact on agricultural land and associated mitigation is set out further in Table B.3 of Appendix B of the Planning Statement (APP-032), which comprises an's assessment of the Joint Minerals and Waste Plan Policy D12 (protection of agricultural land and soils). In summary, Chapter 11 (Ground Conditions) of the ES (APP-047) confirms the potential impact to agricultural land from construction activities is limited to the East Construction Laydown Area, which includes 8.5 ha of Grade 2 Best and Most Versatile ('BMV') and Subgrade 3b (non BMV) agricultural land. During the construction phase, agricultural soils could be degraded through compaction and erosion.

Mitigation measures will therefore be applied via the CEMP, such as the preparation and implementation of a Soil Handling Management Plan ('SHMP'). As stated above, the CEMP is secured via a requirement in Schedule 2 of the DCO. The SHMP will describe best practice methods to reduce impacts to soil during handling, include details on stripping methods, stockpiling requirements, appropriate management (including weather conditions during handling, seeding of stockpiles, stockpile heights etc) and reinstatement. On completion of construction of the Proposed Scheme, the arable land would be reinstated. The western hedgerow would be reinstated and enhanced to a species-rich hedgerow including a more diverse ground flora. The hedgerow would be managed to ensure it remains at an appropriate width and structural diversity

Policy	Policy Text	Compliance with NPS
		to enable a good condition hedgerow. Additional hedgerow and tree planting would be completed along the eastern boundary of the East Construction Laydown Area, to provide ecological and landscape benefits to the existing vegetation. This is set out in the OLBS (AS-094), which is secured by DCO requirement.
		With implemented mitigation, Chapter 11 concludes that there is likely to be a direct, temporary, medium to long-term slight adverse effect (not significant) on agricultural land.
		The Habitat Provision Area will be used to provide environmental mitigation and compensation as outlined in the OLBS (document reference 6.6AS-094), including hedgerow planting, pond creation and wetland planting. The land use in this area would therefore change. The latter two means of mitigation and enhancements are proposed as the relevant part of the Habitat Provision Area is seasonally waterlogged.
		The Off-Site Habitat Provision Area comprises two areas outside of the Order Limits, referred to as Arthur's Wood (northern section) and Fallow Field (southern section) that have been identified for the provision of ecological mitigation and compensation. These areas are collectively referred to as the Off-Site Habitat Provision Area and displayed within the blue line on Figure 1.3 (Off-Site Habitat Provision Area) of the ES (document reference 6.2.1.3APP-058). The land uses in these areas will not change, but the land will be enhanced. Proposals for Arthur's Wood include enhancement of the existing woodland through removal of invasive non-native species and coppicing. Fallow Field proposals include allowing scrub to succeed to woodland, enhancing existing scrub and hedgerow to species rich, enhancing grassland to species rich and creating hedgerow. Further details are set out in the OLBS (document reference 6.6AS-094) and the Heads of Terms for a Section 106 Agreement (document reference 7.1AS-016).
		Outside of the Order Limits, the land use is predominantly agricultural, with the main recreational use being PRoWs. Chapter 16 (Population, Health and Socio-Economics) of the ES (APP-052) describes existing land uses surrounding the Order Limits include private properties, community facilities, businesses, and agricultural land, none of which would be affected in terms of their use of land as a result of the Proposed Scheme.
		In line with paragraph 5.10.6 of EN-1, the local community was consulted on the Proposed Scheme. There is, however, no plan to build on open space, sport and recreation facilities. Details of the consultation process and responses are set out in the Consultation Report (document reference 5.1APP-018) submitted with the DCO Application.
		Public Rights of Way
		With regard to land use effects covered by part 5.10 of EN-1, Chapter 5 (Traffic and Transport) of the ES (document reference 6.1.5APP-041) includes an assessment of likely significant effects of the Proposed Scheme on PRoW used for recreational purposes. There are seven PRoW located within or adjacent to the
		Order Limits, shown on Figure 5.2 (Public Rights of Way Network) of the ES (document reference 6.2.5.2APP-063) and Access and Rights of Way Plans (AS-074)Non-motorised users of the PRoW and non-designated public routes (including pedestrians, cyclists, equestrians and vulnerable groups) are identified in Chapter 5 as sensitive receptors in respect of the effect of the Proposed Scheme on traffic and transport.
		Construction plant and equipment located in works areas adjacent to the PRoWs may have a temporary impact on the amenity value of the paths. However, the impact will be short term, and mitigation measures set out above, contained in the REAC (AS-092) and to be included in the CEMP secured by a requirement

Policy	Policy Text	Compliance with NPS
		to the DCO are considered to mitigate impact sufficiently, which Chapter 5 concluding that the Proposed Scheme will have no significant effects on PRoW users.
		It is also proposed to temporarily stop up path 35.6/6/1 which runs through the Off-site Habitat Provision Area for approximately two weeks, however Chapter 5 concludes that this will not have a significant adverse effect, and Chapter 16 (Population, Health and Socio-Economics) of the ES (APP-052) further confirms that there is unlikely to be a significant effect from the Proposed Scheme in relation to community land and assets such as PRoWs, leisure uses or tourism in the local area, and that these elements have therefore been scoped out of the ES. This was agreed within the Scoping Opinion received by PINS presented at Appendix 1.2 of the ES (document reference 6.3.2.1APP-116).
		The PCAR (AS-45) confirms that a PRoW (AIRMF03) runs east west to the north of the OHL1 and may be affected during the construction phase at the point where PROW (AIRMF03) crosses the A645. Short duration, temporary diversion to PROW (AIRMF03) may be required during the construction phase at this location. This will have a short duration impact on pedestrian delay, pedestrian amenity and fear and intimidation. However, the short length and short duration of diversions are not assessed to result in any significant effects.
		Contamination
		In accordance with paragraph 5.10.8 of EN-1, the Applicant has taken contamination risks into account, given that the majority of the Proposed Scheme is located on previously developed land. Potential contamination risk is assessed in Chapter 11 (Ground Conditions) of the ES (document reference 6.1.11APP-047).
		Mineral Resources
		With regard to paragraph 5.10.9 of EN-1, land in the Order Limits is located within various Minerals Safeguarding Areas and buffer zones to the Safeguarding Areas in the Adopted Joint Minerals and Waste Plan (2022), in addition to a Coalfield Consultation Area. The relevant local planning policies are assessed below in this Tablein the Planning Statement (APP-032).
		However, the built infrastructure to be developed by the Proposed Scheme is located on previously developed land within the Drax Power Station only. Mineral resources are therefore already inaccessible, and the Proposed Scheme will have no impact on this. The Proposed Scheme is therefore considered acceptable by the Applicant in respect of paragraph 5.10.9 of EN-1.
		Summary
		Overall, the Applicant considers that the Proposed Scheme is acceptable with regard to effects associated with land use including open space, green infrastructure and Green Belt., and therefore in accordance with the relevant policies of Part 5.10 of EN-1.
		The above assessment of policy compliance demonstrates that the ES identifies existing and proposed land uses near the project, any effects of replacing an existing development or use of the site with the proposed project or preventing a development or use on a neighbouring site from continuing, in line with paragraph 5.10.5 of EN-1. It also confirms that consultation on the Proposed Scheme was undertaken with the local community in accordance with paragraph 5.10.6 of EN-1, and that the Applicant has sought to minimise impact on BMV land, as per paragraph 5.10.8 of EN-1. Any mineral resources will be safeguarded as required

	Policy	Policy Toyt	Compliance with NDS
I	Policy	Policy Text	Compliance with NPS
			by paragraph 5.10.9 of EN-1. The Proposed Scheme therefore complies with the relevant policies of Part 5.10 of EN-1.
	Noise and	Paragraphs 5.11.4 to 5.11.6 of EN-1 state:	Introduction
	Vibrations (Part 5.11 of EN-1)	Where noise impacts are likely to arise from the proposed development, the applicant should include the following in the noise assessment:	Chapter 7 (Noise and Vibration) of the ES (document reference 6.1.7APP-043) reports the outcome of the assessment of likely significant environmental effects arising from the Proposed Scheme on noise and with retire during the construction and appreciantly phases of the Proposed Scheme. The assessment of paids
		 A description of the noise generating aspects of the development proposal leading to noise impacts, including the identification of any distinctive tonal, impulsive or low frequency characteristics of the noise; 	vibration during the construction and operational phases of the Proposed Scheme. The assessment of noise and vibration impacts has been undertaken in accordance with the requirements set out in 5.11.4 to 5.11.6 of EN-1 and the relevant British Standards.
		 Identification of noise sensitive premises and noise sensitive areas that may be affected; 	The impact of noise and vibration as a result of the Proposed Scheme on sensitive ecological receptors identified have been set out above and are assessed within Chapter 8 (Ecology) of the ES (document reference 6.1.8APP-044). The below assessment therefore focusses on impact on local residents only.
ļ		 The characteristics of the existing noise environment; A prediction of how the noise environment will change with the proposed 	Construction Phase and Decommissioning
		development; ~ In the shorter term such as during the construction period;	During the construction phase and decommissioning, the Proposed Scheme is identified to have the potential to affect noise and vibration as a result of the following:
		 In the longer term during the operating life of the infrastructure at particular times of the day, evening and night as appropriate; 	 The likely noise effects arising from the Proposed Scheme construction phase and decommissioning traffic; and
		~ An assessment of the effect of predicted changes in the noise environment	 Likely noise and vibration effects arising from the construction phase and decommissioning activities.
		on any noise sensitive premises and noise sensitive areas; and	The PCAR (AS-045) identifies that the predicted noise levels due to works associated with OHL1 may exceed
		~ Measures to be employed in mitigating noise.	the Significant Observed Adverse Effect Level (SOAEL) at the nearest sensitive receptors with a magnitude of impact of moderate adverse for short periods of time. However, the duration of the activities will not be
		The nature and extent of the noise assessment should be proportionate to the likely noise impact.	longer than 10 days, with the duration of noisy works anticipated to be less and therefore, the effects are not significant in accordance with Paragraph 7.5.60 of Chapter 7 (Noise and Vibration) of the ES (APP-043),
		The noise impact of ancillary activities associated with the development, such as increased road and rail traffic movements, or other forms of transportation,	which states:
		should also be considered.	"Construction noise effects may be considered significant where it is determined that a moderate or major magnitude of impact will occur for a duration longer than:
		Operational noise, with respect to human receptors, should be assessed using the principles of the relevant British Standards and other guidance. Further	a. 10 or more days or nights in any 15 consecutive days or nights; or
		information on assessment of particular noise sources may be contained in the	b. A total number of days exceeding 40 in any 6 consecutive months".
		technology-specific NPSs. In particular, for renewables (EN-3) and electricity networks (EN-5) there is assessment guidance for specific features of those technologies. For the prediction, assessment and management of construction	However, the The assessment therefore concludes that the noise and vibration effects throughout the construction phase and decommissioning would not be significant on local residents.
l		noise, reference should be made to any relevant British Standards and other	Operational Phase
		guidance which also give examples of mitigation strategies.	During the operational phase, the Proposed Scheme is identified to have the potential to affect noise and
		Paragraph 5.11.8 of EN-1 States:	vibration as a result of the following:
		The project should demonstrate good design through selection of the quietest	
		cost-effective plant available; containment of noise within buildings wherever possible; optimisation of plant layout to minimise noise emissions; and, where	 Likely noise effects arising from the operation of the post combustion carbon capture technology included in the Proposed Scheme.

possible, the use of landscaping, bunds or noise barriers to reduce noise

10 of EN-1.

Construction Phase and Decommissioning

- The likely noise effects arising from the Proposed Scheme construction phase and decommissioning traffic; and
- Likely noise and vibration effects arising from the construction phase and decommissioning activities.

- 10 or more days or nights in any 15 consecutive days or nights; or
- A total number of days exceeding 40 in any 6 consecutive months".

perational Phase

- Likely noise effects arising from the Proposed Scheme operational traffic; and
- Likely noise effects arising from the operation of the post combustion carbon capture technology included in the Proposed Scheme.

However, the assessment concludes that the effect would be not significant on local residents.

transmission.

Policy	Policy Text	Compliance with NPS
	Paragraph 5.11.9 of EN-1 states:	Mitigation
	The SoS should not grant development consent unless it is satisfied that the proposals will meet the following aims:	No significant effects have been identified for the Proposed Scheme following the noise and vibrations assessment undertaken. As such, no design, mitigation or enhancement measures are proposed.
	 Avoid significant adverse impacts on health and quality of life from noise; Mitigate and minimise other adverse impacts on health and quality of life from noise; and Where possible, contribute to improvements to health and quality of life through the effective management and control of noise. 	However, good design is demonstrated by the Applicant, in accordance with paragraph 5.11.8 of EN-1. Chapter 7 (Noise and Vibration) of the ES (document reference 6.1.7APP-043) sets out the methodology of the assessment undertaken and explains that the assessment considers Best Practicable Means (BPM) as primary mitigation which will be described and committed through the REAC (AS-092), and secured as a requirement to Schedule 2 of the DCO. For example, these measures include using only plant conforming with, or that is better than, relevant national or international standards and directives, and using site hoardings and screens, where necessary, to provide acoustic screening at the earliest opportunity.
		Summary
		The Proposed Scheme therefore avoids significant adverse impacts on health and quality of life from noise and would mitigate and minimise other adverse impacts on health and quality of life from noise through the commitments in the REAC. The Proposed Scheme will ensure the effective management and control of noise, which may contribute to improvements to health and quality of life compared to if such measures were not employed.
		The above assessment and information contained in Chapter 7 (Noise and Vibration) of the ES (APP-043) and the PCAR (AS-045) demonstrates that the Proposed Scheme has been assessed in accordance with the criteria set out in paragraphs 5.11.4 to 5.11.6 of EN-1, and that the Proposed Scheme meets the aims sets out in paragraph 5.11.9 of EN-1 and is therefore acceptable in terms of effect noise and vibration effects.
Socio-economics	Paragraph 5.12.2 of EN-1 states:	Introduction
(Part 5.12 of EN-1	Where the project is likely to have socio-economic impacts at local or regional levels, the applicant should undertake and include in their application an assessment of these impacts as part of the ES (see Section 4.2). Paragraph 5.12.3 of EN-1 states:	Chapter 16 (Population, Health and Socio-economics) of the ES (document reference 6.1.16APP-052) contains an assessment of likely significant environmental effects arising from the Proposed Scheme on population, health and socio-economics in accordance with paragraph 5.12.2 of EN-1. It also details the existing socio-economic conditions in the areas surrounding the proposed developmentOrder Limits in accordance with paragraph 5.12.4 of EN-1. The assessment has been undertaken in accordance with the
	This assessment should consider all relevant socio-economic impacts, which	requirements of paragraphs 5.12.3 to 5.12.4 of EN-1.
	may include: ~ The creation of jobs and training opportunities; Co	Construction Phase and Decommissioning
~ The provision infrastructure ~ Effects on too	 The provision of additional local services and improvements to local infrastructure, including the provision of educational and visitor facilities; Effects on tourism; 	The following sensitive receptors are identified in respect of population, health and socio-economic impact: ~ Local economic receptors (i.e., working age individuals within the study area, local businesses who may provide services or accommodation, either through supply chain linkages or accommodation to construction employees, and development land); and
	 The impact of a changing influx of workers during the different construction, operation and decommissioning phases of the energy 	~ Community receptors (i.e., community land and assets).
	infrastructure. This could change the local population dynamics and could alter the demand for services and facilities in the settlements nearest to the construction work (including community facilities and physical infrastructure such as energy, water, transport and waste). There could also be effects on social cohesion depending on how populations and service provision change as a result of the development; and	The assessment undertaken identifies that the likely significant effects of the Proposed Scheme on the identified sensitive receptors are the generation of direct, indirect, and induced employment opportunities. This represents a beneficial economic effect as a result of the Proposed Scheme. No mitigation measures are therefore proposed.

Policy	Policy Text	Compliance with NPS
Policy	 Cumulative effects – if development consent were to be granted to for a number of projects within a region and these were developed in a similar timeframe, there could be some short-term negative effects, for example a potential shortage of construction workers to meet the needs of other industries and major projects within the region. Paragraph 5.12.4 of EN-1 states: Applicants should describe the existing socio-economic conditions in the areas surrounding the proposed development and should also refer to how the development's socio-economic impacts correlate with local planning policies. Paragraph 5.12.6 of EN-1 states: The SoS should have regard to the potential socio-economic impacts of new energy infrastructure identified by the applicant and from any other sources that the SoS considers to be both relevant and important to its decision. Paragraph 5.12.9 of EN-1 states: The SoS should consider whether mitigation measures are necessary to mitigate 	The Proposed Scheme could generate an annual average of 4,000 direct jobs, 1,600 indirect jobs and 2,500 induced jobs (Vivid Economics Limited, 2021). Whilst the employment opportunities are temporary during the construction phase and decommissioning, they will provide local and regional benefits. Enhancement opportunities have also been identified, which include the Applicant promoting the use of loca suppliers and contractors, and through the provision of training opportunities through partnerships with key local stakeholders. A Local Employment Scheme is secured through the Section 106 Agreement between the Applicant and the LPA to deliver this benefit. This obligation is detailed in the Heads of Terms for a Section 106 Agreement (document reference 7.1AS-016) submitted with the DCO Application. Due to the level of deprivation present in some areas, the sensitivity of the receptors identified is considered to be medium. The magnitude of impact is considered to be moderate at local level due to the number of construction jobs generated relative to the size of the SDC and ERoY economy. Therefore, there is likely to be a direct, temporary, medium-term moderate beneficial (significant) residuate effect on the local economy. In terms of impact on community receptors, the works for TCL1 and OHL2 take place on the perimeter of agricultural land, and the works for OHL1 take place within existing agricultural land used for arable farming However, given access for arable use is likely to be infrequent (on a monthly basis), no farming activities
		would be restricted. Furthermore, the existing accesses to properties and land would be maintained or reinstated to their current condition, and the land subject to undergrounding would be restored, so it is not anticipated there would be any significant effects generated by the Proposed Scheme. For all works, where construction vehicles require access via existing accesses to properties and land, it is proposed that if any damage is caused to existing accesses arising from the works, that appropriate repairs are undertaken to maintain the condition of the access road/track to the same as it was prior to the commencement of works. This is included in the REAC (AS-092) to be included in a CEMP that is secured via a requirement in Schedule 2 of the DCO. Permanent rights within agricultural land for both the OHLs and TCL1 for the purposes of retention maintenance, repair or replacement would be minimal and represent a similar portion of land to that occupied by existing Poles. It is not anticipated to restrict farming activities within the agricultural land holdings, or give rise to any permanent effects for the farm businesses.
		As set out above, a PRoW (AIRMF03) runs east west to the north of OHL1. As the PRoW could overlap with one of the OHL construction access points where it crosses the A645, there may be temporary impacts on footpath users. The PCAR (AS-045) states concludes that a short duration, temporary diversion to the PRoW may be required, but whilst this would have a short term impact on pedestrian delay and pedestrian amenity it is not expected to give rise to a significant effect. The PCAR also identifies that the site boundary for Short List ID44 (see Appendix 18.2 (Short List of Other Developments) (AS-013)) overlaps with the proposed Order Limits for OHL2. Although Short List ID 44 is an employment development, it does not fall within an employment development allocation as per the East Riding of Yorkshire Local Plan (2016). Due to this, and because of the nature of the proposed works to OHLs it is not anticipated that there will be any significant effects on allocated development land.

Policy	Policy Text	Compliance with NPS
		Operational Phase
		There are no significant operational phase effects on socio-economics identified as a result of the Proposed Scheme.
		Cumulative Impact
		A likely beneficial cumulative effect associated with direct, indirect, and induced employment opportunities has been identified for during the construction and operational phases between the relevant other developments and the Proposed Scheme including the adjacent Barlow Ash Mound proposal, the nearby developments of an energy storage facility at Land off New Road and a battery storage facility at Land off Hales Lane, and the larger Scotland to England Green Link 2 Project. There is also potential for a temporary slight adverse cumulative effect resulting from an increased demand for accommodation and community facilities, and access to development land and businesses during the construction phase between the relevant other developments and the Proposed Scheme. This will not be significant.
		A detailed assessment of inter-project cumulative effects for the Proposed Scheme is presented in Chapter 18 (Cumulative Effects) of the ES (document reference 6.1.18APP-054), as well as Appendix 18.4 (Justification of Scoping In / Out of Stages 3 and 4 of the Assessment) of the ES (document reference 6.3.18.4APP-176) and Appendix 18.5 (Cumulative Effect Assessment Matrix) of the ES (document reference 6.3.18.5APP-177), as required by paragraph 5.12.6 of EN-1.
		Summary
		The assessment of socio-economic effects of the Proposed Scheme has been undertaken in accordance with the relevant policies of Part 5.12 of EN-1. Overall, the Proposed Scheme will have a positive impact in terms of socio-economics and is therefore considered by the Applicant to be acceptable.
Traffic and	Paragraph 5.13.2 of EN-1 states:	Introduction
Transport (Part 5.13 of EN-1)	The consideration and mitigation of transport impacts is an essential part of Government's wider policy objectives for sustainable development as set out in Section 2.2 of this NPS.	A preliminary assessment of the Proposed Scheme identified potential significant transport implicate Therefore, in accordance with paragraph 5.13.3 of EN-1, a transport assessment has been undertained to the ES (document reference 6.1.5APP-041) reports the outcome of the ES (document reference 6.1.5APP-041) reports t
	Paragraph 5.13.3 of EN-1 states:	assessment of likely significant environmental effects arising from the Proposed Scheme on Traffic and Transport. The assessment has been undertaken in accordance with paragraphs 5.13.3 and 5.13.4 of EN-1.
	If a project is likely to have significant transport implications, the applicant's ES (see Section 4.2) should include a transport assessment, using the NATA/WebTAG methodology stipulated in Department for Transport guidance, or any successor to such methodology. Applicants should consult the Highways Agency and Highways Authorities as appropriate on the assessment and mitigation.	Identified sensitive receptors are shown at Figure 5.1 (Study Area (Traffic and Transport)) of the ES (document reference 6.2.5.1APP-062) and include:
		 Motorised users of the surrounding highway network within the study area as shown on Figure 5.1 of the ES, including vehicle drivers and public transport users;
		~ Non-motorised users of the surrounding highway network within the study area as shown on Figure 5.2
	Paragraph 5.13.4 of EN-1 states:	(Public Rights of Way Network) of the ES (document reference 6.2.5.2APP-063), PRoW and non-designated public routes, including pedestrians, cyclists and equestrians (and vulnerable groups); and
	Where appropriate, the applicant should prepare a travel plan including demand management measures to mitigate transport impacts. The applicant should also provide details of proposed measures to improve access by public transport,	 Residents within the settlements of Camblesforth, Drax and Carlton in respect of the links that pass through these villages, change in traffic flows, and assessment of the effects.
	walking and cycling, to reduce the need for parking associated with the proposal	To note, in accordance with paragraph 5.13.10 of EN-1, water-borne transport (utilising the River Ouse and

and to mitigate transport impacts.

the existing Drax Jetty) was considered as a sustainable transport mode for AILs and other materials in the

Policy Text Policy Paragraph 5.13.6 of EN-1 states: A new energy NSIP may give rise to substantial impacts on the surrounding transport infrastructure and the SoS should therefore ensure that the applicant has sought to mitigate these impacts, including during the construction phase of the development. Where the proposed mitigation measures are insufficient to reduce the impact on the transport infrastructure to acceptable levels, the SoS should consider requirements to mitigate adverse impacts on transport networks arising from the development, as set out below. Applicants may also be willing to enter into planning obligations for funding infrastructure and otherwise mitigating adverse impacts. Paragraph 5.13.8 states: Where mitigation is needed, possible demand management measures must be considered and if feasible and operationally reasonable, required, before considering requirements for the provision of new inland transport infrastructure to deal with remaining transport impacts. Paragraph 5.13.10 of EN-1 states: Water-borne or rail transport is preferred over road transport at all stages of the project, where cost-effective. Paragraph 5.13.11 of EN-1 states: substantial HGV traffic that:

Compliance with NPS

iterative design process. This was discussed during statutory consultation with the relevant stakeholders. The Applicant used the DfT policy guidance "Water Preferred Policy Guidelines for the movement of abnormal indivisible loads" when preparing their Application.

Chapter 5 considers this guidance and confirms that transport of AIL was discussed during pre-application discussions with National Highways, NYCC and ERoY. This is described in further detail in Section 3.6 of Chapter 3 (Consideration of Alternatives) of the ES (document reference 6.1.3APP-039). The outcome of the consultation was Agreement in Principle to transporting AIL by using the 'Road Option' and approval of the proposed strategy was confirmed 20 April 2021. It was agreed that the substantial infrastructure works, and construction required, and the associated impact, including financial considerations of the jetty option, outweighed the benefit. As such, this method of transportation was not progressed.

Construction Phase and Decommissioning

Chapter 5 explains that the assessment demonstrates there will be a temporary increase in traffic flows within the study area during the construction phase and decommissioning as a result of the Proposed Scheme. The change in traffic flows is then considered with regard to severance, pedestrian amenity and fear and intimidation. Impact on driver delay, PRoWs, highway safety and Abnormal Indivisible Loads (AIL)AILs is also assessed. Some potential significant effects are identified on the aforementioned considerations; therefore mitigation is proposed through the following:

- Preparation and implementation of a CTMP to set out management measures to mitigate transport impacts (as mentioned above). This is included in the REAC (AS-092) and is secured by a requirement in the DCO. It will be informed by the Outline CTMP presented at Appendix 5.1 of the ES (document reference 6.3.5.1AS-086); and
- Preparation and implementation of a CWTP to maintain and manage the method of arrival of construction workers. This is included in the REAC and is secured by a requirement in the DCO. It will be informed by the Framework CWTP presented at Appendix 5.2 of the ES (document reference 6.3.5.2APP-120).

The assessment concludes that the temporary construction impacts can be effectively mitigated through enhanced management of the construction traffic, with robust monitoring and reporting measures included in the Outline CTMP and Framework CWTP secured through a DCO Requirement. This would include working with National Highways, NYCC, and East Riding of Yorkshire Council ('ERoY'). Therefore, with the above mitigation measures applied, all residual effects for the construction phase and decommissioning on traffic and transport as a result of the Proposed Scheme in isolation are predicted to be neutral or slight (not significant).

Operational Phase

Chapter 5 (Traffic and Transport) of the ES (APP-041) states that very low traffic flows will result from the operational phase of the Proposed Scheme commencing 2027 and the workforce required to operate the Proposed Scheme will result in an overall net-reduction of circa 180 people in the workforce (compared to the Drax Power Station Site workforce at the time of baseline traffic flow data collection in 2018). Vehicle numbers generated will be significantly lower than the construction phase. Chapter 5 considers the overall effects of the operational phase of the Proposed Scheme to be negligible (not significant).

No mitigation measures are therefore proposed in respect of the operational phase of the Proposed Scheme.

The SoS may attach requirements to a consent where there is likely to be

- ~ Control numbers of HGV movements to and from the site in a specified period during its construction and possibly on the routing of such movements:
- Make sufficient provision for HGV parking, either on the site or at dedicated facilities elsewhere, to avoid 'overspill' parking on public roads, prolonged queuing on approach roads and uncontrolled on-street HGV parking in normal operating conditions; and
- Ensure satisfactory arrangements for reasonably foreseeable abnormal disruption, in consultation with network providers and the responsible police force.

Policy	Policy Text	Compliance with NPS
		Cumulative Impact
		Chapter 5 concludes that there could be significant cumulative effects relating to highway safety and driver delay at Junction 4 (M62 Junction 36) if all other committed developments are built out and the junction is not upgraded. Junction 4 would operate over capacity in the 2026 Do Minimum assessment scenario and the Proposed Scheme would increase driver delay in the 2026 Do Something assessment scenario. It is understood that a highway improvement and contribution model has been identified at Junction 4 to address the traffic impacts associated with committed development, including Short List 44 (ERoY Planning Reference: 21/03027/STPLF). Further discussions are required with ERoY and National Highways to understand the timescales and mechanism to upgrade Junction 4 to accommodate planned growth, and to assess whether this would result in a reduced impact at the junction regarding highway safety and driver delay.
		Summary
		The above assessment demonstrates the assessment of impact, and proposed mitigation measures for the Proposed Scheme comply with the relevant policies of Part 5.13 of EN-1.
		The Proposed Scheme alone will not result in traffic and transport related significant effects during the construction and, operational phases, nor decommissioning, and is therefore considered by the Applicant to be acceptable.
		However, the cumulative impacts of the Proposed Scheme with other projects must be investigated further in partnership with ERoY and National Highways to ensure impact on highway safety and driver delay can be suitably mitigated during the construction phase and decommissioning.
Waste Management	Paragraph 5.14.6 of EN-1 states:	Introduction
(Part 5.14 of EN-1 and Part 2.5.64 - 2.5.83 of EN-3)	The applicant should set out the arrangements that are proposed for managing any waste produced and prepare a Site Waste Management Plan. The arrangements described and Management Plan should include information on the proposed waste recovery and disposal system for all waste generated by the development, and an assessment of the impact of the waste arising from development on the capacity of waste management facilities to deal with other waste arising in the area for at least five years of operation. The applicant should seek to minimise the volume of waste produced and the volume of waste sent for disposal unless it can be demonstrated that this is the best overall environmental outcome.	Chapter 13 (Materials and Waste) of the ES (document reference 6.1.13APP-049) reports the outcome of an assessment of likely significant environmental effects arising from the Proposed Scheme on materials and waste. The assessment has been undertaken in accordance with the relevant policies of EN-1 and EN-3, and . The assessment considers both hazardous and non-hazardous waste. Assessment of the Proposed Scheme against relevant local waste policies (mentioned in paragraph 2.5.69 of EN-3) is set out below in Table B.1 of Appendix B of the Planning Statement (APP-032). In line with paragraph 2.5.68 of EN-3, Chapter 13 confirms an Annual Monitoring Report published by Kirklees Council was a data source used in the preparation of the Chapter (Yorkshire and Humber Aggregates Working Party, 2018). In accordance with paragraph 2.5.69 of EN-3, the assessment of the Proposed Scheme's conformity with the waste hierarchy and the effect on relevant waste plans is assessed in Table B.3 of Appendix B of the
	Paragraph 5.14.7 of EN-1 states:	Planning Statement (APP-032)this Appendix, below.
	The SoS should consider the extent to which the applicant has proposed an effective system for managing hazardous and non-hazardous waste arising from the construction, operation and decommissioning of the proposed development. It should be satisfied that: ~ Any such waste will be properly managed, both on-site and off-site; ~ The waste from the proposed facility can be dealt with appropriately by the	Chapter 13 explains that embedded mitigation has been applied to the Proposed Scheme upfront through design to avoid and mitigate adverse impacts from material resources consumption, and the generation and disposal of waste. 55,600 tonnes of aggregate imported to site for temporary piling platforms will be retained for reuse as structural fill. In addition, earthworks arisings generated (cut) will be reused during construction (approximately 365,850 tonnes, albeit this may alter subject to the suitability of the resource for reuse once excavated and chemically / geotechnically tested).
	waste infrastructure which is, or is likely to be, available. Such waste	The assessment identifies that the Proposed Scheme has the potential to affect materials and waste as a result of consumption of natural and non-renewable resources during the construction phase and

Policy Text Policy arisings should not have an adverse effect on the capacity of existing waste management facilities to deal with other waste arisings in the area; and Adequate steps have been taken to minimise the volume of waste arisings, and of the volume of waste arisings sent to disposal, except where that is the best overall environmental outcome. Paragraph 5.14.9 states: Where the project will be subject to the EP regime, waste management arrangements during operations will be covered by the permit and the considerations set out in Section 4.10 will apply. Paragraph 2.5.66 to 2.5.69 of EN-3 state: An assessment of the proposed waste combustion generating station should be undertaken that examines the conformity of the scheme with the waste hierarchy and the effect of the scheme on the relevant waste plan or plans where a proposal is likely to involve more than one local authority. The application should set out the extent to which the generating station and capacity proposed contributes to the recovery targets set out in relevant strategies and plans, taking into account existing capacity. It may be appropriate for assessments to refer to the Annual Monitoring Reports published by relevant waste authorities which provide an updated figure of existing waste management capacity and future waste management capacity requirements. The results of the assessment of the conformity with the waste hierarchy and the effect on relevant waste plans should be presented in a separate document to accompany the application to the SoS.

Compliance with NPS

decommissioning, and as a result of a reduction in landfill capacity during the constriction, operational and decommissioning phases.

Sensitive receptors in respect of materials and waste are therefore identified as:

- Material resources (i.e., consumption impacts on materials' immediate and long-term availability, and results in depletion of natural resources)'; and
- Landfill void capacity (i.e., reductions in regional and national infrastructure result in unsustainable use and loss of resources, and temporary or permanent degradation of the natural environment).

Construction Phase and Decommissioning

Chapter 13 explains that there will be no significant effects as a result of material resource consumption, therefore additional mitigation measures are therefore not required.

Significant effects were, however, identified relating to waste consumption. Mitigation measures are therefore set out in the REAC (AS-092) to minimise the effects of waste generation and disposal to a point where they are no longer significant. Mitigation measures include:

- The preparation and implementation of a Site Waste Management Plan ('SWMP') to manage and monitor site waste effectively, with the overall objective to reduce waste and potential harm to the environment during construction; and
- The preparation and implementation of a Materials Management Plan ('MMP') to monitor the maximum reuse of both natural soils and Made Ground (contaminated or otherwise).

The abovementioned management plans are included in the CEMP which is secured as a requirement to the DCO.

Operational Phase

There are no significant effects resulting from operational waste, therefore the Applicant considers no mitigation measures are required.

Cumulative Impact

Chapter 13 (Materials and Waste) of the ES (APP-049) explains that there is potential for the Proposed Scheme in conjunction with other projects to result in cumulative environmental impacts and effects with regard to the depletion of natural resources and the generation of waste. These are detailed in Chapter 18 (Cumulative Effects) of the ES (document reference 6.1.18APP-054) and Appendices 18.3 (Intra-Project Effects Screening Matrix) and 18.4 (Justification of Scoping In / Out of Stages 3 and 4 of the Assessment) of the ES (document references 6.3.18.3APP-175 and 6.3.18.4APP-175 respectively).

However, with the implementation of the below measures set out in Chapter 13, the cumulative effects of resource consumption and waste generated from the Proposed Scheme and other proposed developments would not – within a regional context – be expected to result in significant adverse cumulative effects. The specific measures include:

- Good and best practice measures for sustainable resource management; and
- NYCC as the local Waste Planning Authority will continue to plan for effective waste management and to ensure sufficient capacity during the planning period.

Policy	Policy Text	Compliance with NPS
		The assessment acknowledges that materials and waste data from other proposed developments becoming available in future may result in further testing being undertaken to assess cumulative impact. **Summary** Overall, the Proposed Scheme at all stages will not have an adverse effect with regard to minerals and waste and is therefore considered by the Applicant to be acceptable.
Water Quality and Resources (Part 5.15 of EN-1 and Part 2.5.84 - 2.5.87 of EN-3)	Paragraph 5.15.2 states: Where the project is likely to have effects on the water environment, the applicant should undertake an assessment of the existing status of, and impacts of the proposed project on, water quality, water resources and physical characteristics of the water environment as part of the ES or equivalent. (See Section 4.2.). 5.15.3 states: The ES should in particular describe: The existing quality of waters affected by the proposed project and the impacts of the proposed project on water quality, noting any relevant existing discharges, proposed new discharges and proposed changes to discharges; Existing water resources affected by the proposed project and the impacts of the proposed project on water resources, noting any relevant existing abstraction rates, proposed new abstraction rates and proposed changes to abstraction rates (including any impact on or use of mains supplies and reference to Catchment Abstraction Management Strategies); Existing physical characteristics of the water environment (including quantity and dynamics of flow) affected by the proposed project and any impact of physical modifications to these characteristics; and Any impacts of the proposed project on water bodies or protected areas under the Water Framework Directive and source protection zones (SPZs) around potable groundwater abstractions.	Introduction The Proposed Scheme has the potential to impact water resources during the construction phase and decommissioning as a result of water quality of surface water and groundwater resources, and during the operational phase as a result of water quality of surface water resources. Chapter 12 (Water Environment) of the ES (document reference 6.1.12APP-048) and its associated appendices therefore assesses the likely significant environmental effects resulting from the Proposed Scheme on the water environment, including flood risk, as well as water quality, groundwater, Water Framework Directive compliance and drainage. Flood risk has been assessed separately above in this NPS Compliance Tracker Table and is therefore not considered below. The assessment presented at Chapter 12 meets the requirements of paragraph 5.15.3 of EN1. In accordance with paragraph 5.15.6 of EN-1, Chapter 12 confirms that relevant River Basin Management Plan/s have been used during the preparation of the Chapter. In respect of meeting the requirements of the Water Framework Directive ("WFD") (including Article 4.7); a WFD screening exercise was undertaken, and the WFD Screening Note is presented at Appendix 12.2 of the ES (document reference 6.3.12.2APP-161). The WFD Screening Note concludes that a full WFD assessment is not required for the Proposed Scheme. One water body was screened in for assessment (Ouse from R Wharfe to Upper Humber (GB104027064270)), however all activities have been screened out and therefore further consideration of that waterbody is not required. Construction Phase and Decommissioning The identified preliminary likely significant effects for water environment associated with the construction phase and decommissioning include:
	Paragraph 5.15.6 of EN-1 states: The SoS should satisfy itself that a proposal has regard to the River Basin Management Plans and meets the requirements of the Water Framework Directive (including Article 4.7) and its daughter directives, including those on priority substances and groundwater. The specific objectives for particular river basins are set out in River Basin Management Plans. The SoS should also consider the interactions of the proposed project with other plans such as Water Resources Management Plans and Shoreline/Estuary Management Plans. Paragraph 5.15.9 of EN-1 states:	 Increased risk of pollution from increased sediment load; Increased Risk of Pollution to Surface Water Features from Accidental Spillages of Oil, Hydrocarbons and Hazardous Substances and increased turbidity of groundwater; Chemical and Physical Alteration of the Sherwood Sandstone Principal Aquifer; Chemical and Physical Alteration of the Secondary A Aquifers; Pollution of the Groundwater abstractions for Non-Potable Use; and Pollution or Recharge Alteration of the Public Water Supply Abstractions (Yorkshire Water)s (SPZ 3 protection at Site).

Policy Text

The risk of impacts on the water environment can be reduced through careful design to facilitate adherence to good pollution control practice. For example, designated areas for storage and unloading, with appropriate drainage facilities, should be clearly marked.

Paragraph 2.5.84 of EN-3 states:

The design of water-cooling systems for EfW and biomass generating stations will have additional impacts on water quality, abstraction and discharge. These may include:

- Discharging water at a higher temperature than the receiving water, affecting the biodiversity of aquatic flora and fauna;
- Use of resources may reduce the flow of watercourses, affecting the rate at which sediment is deposited, conditions for aquatic flora and potentially affecting migratory fish species (e.g., salmon);
- Fish impingement and/or entrainment i.e., being taken into the cooling system during abstraction; and
- Discharging water containing chemical anti-fouling treatment of water for use in cooling systems may have adverse impacts on aquatic biodiversity.

Paragraph 2.5.85 of EN-3 states:

Where the project is likely to have effects on water quality or resources the applicant should undertake an assessment as required in EN-1, Section 5.15. The assessment should particularly demonstrate that appropriate measures will be put in place to avoid or minimise adverse impacts of abstraction and discharge of cooling water.

Paragraph 2.5.86 of EN-3 states:

The SoS should be satisfied that the applicant has demonstrated measures to minimise adverse impacts on water quality and resources as described above and in EN-1.

Paragraph 2.5.86 of EN-3 states:

In addition to the mitigation measures set out in EN-1, design of the cooling system should include intake and outfall locations that avoid or minimise adverse impacts. There should also be specific measures to minimise fish impingement and/or entrainment and the discharge of excessive heat to receiving waters.

Compliance with NPS

As such, a number of mitigation measures are proposed, which Chapter 12 explains need to be incorporated into the detailed design of the Proposed Scheme to facilitate adherence to good pollution control practice and mitigate adverse effects.

Mitigation measures include, but are not limited to:

- Implementation of the measures set out in the Appendix 12.3 (Existing Drainage Systems and Proposed Surface Water Drainage Strategy) of the ES (document reference 6.3.12.3APP-162). This is secured by a requirement to the DCO;
- The drilling contractors will monitor the drilling fluid pressures and observe for pressure drops. A drilling fluid that is approved to discharge to the water environment will be used;
- Construction compounds and new access roads will not be hard surfaced so that runoff is not increased;
- During any trench excavation works, should dewatering be required due to groundwater inflow, any
 water which is pumped out to be discharged to a nearby surface water course will undergo settlement
 treatment for reducing turbidity prior to being discharged; and
- Preparation and implementation of a CEMP and DEMP which is secured as a requirement in the DCO. As set out in previous sections above, measures to be contained in these documents are set out in the REAC (-AS-092).

The mitigative measures set out above, and others detailed in the REAC, are secured through a requirement in Schedule 2 of the DCO, as set out in the REAC.

With the inclusion of the proposed mitigation measures set out in Chapter 13 and the REAC, it is concluded that the construction phase and decommissioning of the Proposed Scheme could have the following residual impacts on the water environment:

- A temporary, indirect, short term slight adverse effect on three water features as a result of increased sediment load;
- A temporary, indirect, short term slight adverse effect on six water features as a result of by accidental spillage and leakage of oil, hydrocarbons and hazardous substances;
- A temporary, direct, short term, slight adverse effect on the Sherwood Sandstone Principal aquifer as a result of the spillage and subsequent infiltration of pollutants;
- A temporary, direct, short term, slight adverse effect on the Secondary A aquifers as a result of spillage of pollutants; and
- A temporary, indirect, short term, slight adverse effect on public water supply abstractions (Yorkshire Water) as a result of any pollution spilled on site that would migrate into the Sherwood Sandstone Principal aquifer.

As stated above, all potential effects are temporary and not significant.

Operational Phase

There will be no significant effects from the Proposed Scheme on the water environment arising during the operational phase. Consequently, no phase specific mitigation measures are required.

Policy	Policy Text	Compliance with NPS
		Cumulative Impact No significant cumulative effects have been identified when considering impact on the water environment from the Proposed Scheme and other relevant projects.
		Summary
		In summary, the Proposed Scheme will result in non-significant adverse effects on the water environment during the construction phase and decommissioning which cannot be sufficiently mitigated. However, the effects identified will be temporary, and will therefore not have any long term impact. Adverse effects will be reduced as far as practicable by the mitigation measures proposed. The Applicant therefore considers the Proposed Scheme to be acceptable in terms of impact on water quality and resources, and that the above assessment demonstrates the Proposed Scheme complies with the relevant policies of Part 5.15 of EN-1 and Part 2.5.84 - 2.5.87 of EN-3

Drax Bioenergy with Carbon Capture and Storage

3. DRAFT NATIONAL POLICY STATEMENTS

Compliance with the draft NPS statements EN-1 and EN-3 are assessed below. The adopted and emerging EN-1 and EN-3 policies have been compared, and the proposed policy changes of policies relevant to the DCO Application are assessed below. The assessment considers both the 'assessment principles' and 'generic impacts' policies in draft EN-1. The technology-specific information parts of EN-3 have also been assessed below and the relevant part of the NPS is referenced. Where the proposed changes are either negligible or not relevant to the DCO Application, the assessment of compliance with the adopted NPS policy set out in Chapter 4 of the Planning Statement (APP-032) or in Table 1 of this National Policy Statement Tracker remains relevant. Tracked changes in the left hand column show the changes from the existing adopted NPSs to the Draft NPSs for ease of comparison.

Table 2 - Draft National Policy Statement Compliance Tracker

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance	
EN-1 - Assessment princ	N-1 - Assessment principles and Generic Impacts		
General points-Policies and Considerations (Part 4.1 of EN-1)	4.1.1 The statutory framework for deciding applications for development consent under the Planning Act is summarised in Section 1.1 of this NPS. This Part of the NPS sets out certain general policies in accordance with which applications relating to energy infrastructure are to be decided that do not relate only to the The need for new energy infrastructure (is covered in Part 3) or to, and guidance regarding the particular	The proposed changes to the policy text highlights the importance of the Government's net zero commitment and efforts to fight climate change at proposed paragraph 4.1.2. The Proposed Scheme is designed to remove approximately 95% of the CO2-carbon dioxide from the flue gas from biomass Units 1 and 2, resulting in overall negative emissions of greenhouse gases.	
	physical impacts of its construction orand operation (covered are set out in Part 5 of this NPS and the Part 2 of each technology- specific NPSs). NPS. This part of EN-1, Assessment Principles, sets out the general policies for the submission and assessment of applications relating to energy infrastructure.	At proposed draft paragraph 4.1.3, it is proposed to include 'ecological enhancements' to the list of considerations for the SoS when weighing the benefits and the disbenefits of development in the planning balance, in addition to the proposal's potential to mitigate any adverse impacts.	
	 4.1.2 The Energy White Paper emphasises the importance of the Government's net zero commitment and efforts to fight climate change. Given the level and urgency of need for infrastructure of the types covered by the energy NPSs set out in Part 3 of this NPS, the IPC shouldSecretary of State will start with a presumption in favour of granting consent to applications for energy NSIPs. That presumption applies unless any more specific and relevant policies set out in the relevant NPSs clearly indicate that consent should be refused. The presumption is also subject to the provisions of the Planning Act 2008 referred to at paragraph 1.1.2 of this NPS. 4.1.3 In considering any proposed development, and in particular when weighing its 	Where some residual impacts do remain (as detailed in this documentAppendix, above, and in the ES), the Applicant considers these to be outweighed by the benefit of the	
	 adverse impacts against its benefits, the IPCSecretary of State should take into account: Its potential benefits including its contribution to meeting the need for energy infrastructure, job creation, ecological enhancements, and any long-term or wider benefits; and Its potential adverse impacts, including any long-term and cumulative adverse 	Proposed Scheme, as set out across thise Planning Statement (APP-032) and in the Needs and Benefits Statement (document reference 5.3APP-032). In particular, that the Proposed Scheme will result in a net reduction in GHG emissions and therefore assist the Government in meeting their target of net zero by 2050. Table 1 above, and Appendix B of theis Planning Statement (APP-031) assesses the proposal against the existing NPSs and other adopted policy which the SoS may consider important and relevant in accordance with proposed paragraph 4.1.5, namely the NPPF	
	impacts, as well as any measures to avoid, reduce, mitigate or compensate for any adverse impacts. 4.1.4 In this context, the IPCSecretary of State should take into account environmental, as sign and account environmental, as sign and account environmental.	and local planning policy. The Planning Statement also addresses other important and relevant document, namely government strategies and support for CCUS and BECCS. Proposed paragraph 4.1.9 explains the benefits of early engagement with key	

social and economic benefits and adverse impacts, at national, regional and local

the application or elsewhere (including in local impact reports), marine plans, and

levels. These may be identified in this NPS, the relevant technology- specific NPS, in

Drax Bioenergy with Carbon Capture and Storage

stakeholders, and strongly encourages this take place. The Applicant undertook early

engagement with key stakeholders, as set out in the Consultation Report (document

reference 5.1APP-018) and the respective chapters of the ES (document reference 6.1).

Emerging Policy Text Detailing Changes

Policy

other material considerations as outlined in Section 1.1). Where this NPS or the relevant technology specific NPSs require an applicant to mitigate a particular impact as far as possible, but the Secretary of State considers that there would still be residual adverse effects after the implementation of such mitigation measures, those residual effects should be weighed against the benefits of the proposed development.

4.1.5 The policy set out in this NPS and the technology- specific energy NPSs is, for the most part, intended to make provide greater clarity around existing policy and practice of the Secretary of State in consenting considering applications for nationally significant energy infrastructure clearer and more transparent, rather than to change the underlying policies against which applications are assessed (or therefore the "benchmark" for what is, or is not, an acceptable nationally significant energy development). Other matters that the IPCSecretary of State may consider both important and relevant to itstheir decision-making may include Development Plan Documents or other documents in the Local Development Framework. In the event of a conflict between these or any other documents and an NPS, the NPS prevails for purposes of IPCS ecretary of State decision making given the national significance of the infrastructure. The energy NPSs have taken account of relevant the National Planning Policy Statements (PPSs) and older-style Framework (NPPF), the Planning PolicyPractice Guidance Notes Part 4 Assessment Principles (PPG) for (PPGs) in England, and Planning Policy Wales and Technical Advice Notes (TANs) infor Wales, where appropriate.

4.1.6 The Marine and Coastal Access Act 2009 provides for the preparation of Where the project conflicts with a Marine Policy Statement (MPS) and proposal in a number of marine plans. The IPC must have regard to the MPS and applicable marine plans in taking any decision which relates to the exercise of any function capable of affectingdraft Development Plan, the whole or any partSecretary of State should take account of the UK marine area. In stage which the event of a conflict between any of these marine planning documents and an NPS, the NPS prevails Development Plan document in England or Local Development Plan in Wales has reached in deciding what weight to give to the plan for the purposes of IPC decision making givendetermining the national planning significance of the infrastructure what is replaced, prevented or precluded. The closer the Development Plan document in England or local Development Plan in Wales is to being adopted by the LPA, the greater weight which can be attached to it.

4.1.7 The IPCSecretary of State should only impose requirements⁵¹ in relation to a development consent that are necessary, relevant to planning, relevant to the development to be consented, enforceable, precise, and reasonable in all other respects. The IPCSecretary of State should take into account the guidance in Circular 11/95, as revised, on "Thethe NPPF, the PPG: Use of Planning Conditions in Planning Permissions", and TANs, or any successor to it.documents, where appropriate.

4.1.8 The IPCSecretary of State may take into account any development consent obligations⁵² that an applicant agrees with local authorities. These must

Assessment of Changes of Relevance

Proposed paragraph 4.1.10 emphasises the importance of applicant's consideration of 'good design' criteria, stating that "Design principles should be established from the outset of the project to guide the development from conception to operation." As set out in Table 1 above, tThe Applicant has prepared a Design Framework (document reference 6.9APP-195) which iwas submitted with the DCO Application and sets out the design principles which will guide the design of the Proposed Scheme at the detailed design stage. The design principles detailed in the Design Framework are included in the REAC (AS-092) and are therefore secured via a requirement in the DCO.

The DCO (document reference 3.1AS-076) includes a number of requirements, and Section 4.4 of the Planning Statement (APP-032) demonstrates how they meet these tests. Similarly, a Development Consent Obligation is intended to be entered into, based on the submitted Heads of Terms for a Section 106 Agreement (document reference 7.1AS-016).

Together these documents ensure that all of the mitigation measures identified in the ES are secured.

Prax Bioenergy with Carbon Capture and Storage

Page 65 of 156

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	be relevant to planning, necessary to make the proposed development acceptable in planning terms, directly related to the proposed development, fairly and reasonably related in scale and kind to the proposed development, and reasonable in all other respects.	
	4.1.94.1.9 Early engagement at the pre-application stage with key stakeholders, including public regulators, Statutory Nature Conservation Bodies (SNCBs), and those likely to have an interest in a proposed energy infrastructure application, is strongly encouraged. The benefits of early engagement with key stakeholders are numerous. Early engagement can aid in ensuring that all relevant information can be properly assessed by the Examining Authority at the examination stage of the project and in the subsequent report.	
	4.1.10 Applicants need to consider the importance of 'good design' criteria. Such consideration of 'good design' criteria should be demonstrated when submitting applications for energy infrastructure projects to the Secretary of State. To ensure good design is embedded within the project development, a project board level design champion could be appointed, and a representative design panel used to maximise the value provided by the infrastructure. Design principles ⁵³ should be established from the outset of the project to guide the development from conception to operation.	
	4.1.11 Further information on the criteria for 'good design' for energy infrastructure is set out at Section 4.6 of this part of this NPS.	
	4.1.12 In deciding to bring forward a proposal for infrastructure development, the applicant will have made a judgement on the financial and technical viability of the proposed development, within the market framework and taking account of Governmentgovernment interventions. Where the IPCSecretary of State considers, on information provided in an application, that the financial viability and technical feasibility of the proposal has been properly assessed by the applicant it is unlikely to be of relevance in IPCSecretary of State decision making (any exceptions to this principle are dealt with where they arise in this or other energy NPSs and the reasons why financial viability or technical feasibility is likely to be of relevance explained). 50 NPPF: https://www.gov.uk/government/collections/planning-practice-guidance; PPG: Use of Planning Conditions: https://www.gov.uk/guidance/use-of-planning-conditions; TANs: https://gov.wales/technical-advicenotes 51 As defined in section 120 of the Planning Act 2008.	
	 Where the words "planning obligations" are used in this NPS they refer to "development consent obligations" under section 106 of the Town & Country Planning Act 1990 as amended by section 174 of the Planning Act 2008. Design principles should take into account any national guidance on infrastructure design, this could include for example the Design Principles for National Infrastructure published by the National Infrastructure Commission. 	
	https://nic.org.uk/studies-reports/design-principles-for-national-infrastructure/	
Environmental Statement Principles (Part 4.2 of EN 1)		Of most relevance to the DCO Application, proposed paragraph 4.2.3 proposes the inclusion of 'biodiversity net gain' as a way to demonstrate how any likely significant negative effects would be avoided, reduced, or mitigated. As detailed in the row above, and Table 1 above, the Applicant is committed to achieving Biodiversity Net Gain (BNG) to mitigate habitat loss. This will be calculated further at the detailed design stage.

Policy Emerging Policy Text Detailing Changes

population, human beings76, fauna and florahealth,⁵⁵ biodiversity, land, soil, water, air, climate, the landscape, material assets and cultural heritage, and the interaction between them. The Directive requires Regulations require an assessment of the likely significant effects of the proposed project on the environment, covering the direct effects and any indirect, secondary, cumulative, transboundary, short, medium, and long-term, permanent and temporary, positive and negative effects at all stages of the project, and also of the measures envisaged for avoiding or mitigating significant adversadverse effects.⁵⁶

- 4.2.2 To consider the potential effects, including benefits, of a proposal for a project, the IPC will find it helpful if the applicant setsshould set out information on the likely significant social and economic effects of the development, and showshow how any likely significant negative effects would be avoided, reduced, or mitigated. This information could include matters such as employment, equality, biodiversity net gain, community cohesion and well-being.
- 4.2.3 For the purposes of this NPS and the technology- specific NPSs the ES should cover the environmental, social and economic effects arising from pre-construction, construction, operation and decommissioning of the project. In some circumstances (for example, gas pipe-lines) it may be appropriate to assess effects arising from commissioning infrastructure once it is completed but before it comes into operation. Details of this and any other additional assessments are set out where necessary in sections on individual impacts in this NPS and in the technology-specific NPSs. In the absence of any additional information on additional assessments, the principles set out in this Section will apply to all assessments.
- 4.2.4 When considering a proposal the IPC should satisfy itself that likely significant effects, including any significant residual effects taking account of any proposed mitigation measures or any adverse effects of those measures, have been adequately assessed. In doing so the IPC should also examine whether the assessment distinguishes between the project stages and identifies any mitigation measures at those stages. The IPC should request further information where necessary to ensure compliance with the EIA Directive. 74 Council Directive 85/337/EEC on the assessment of the effects of certain public and private projects on the environment, amended by Directives 97/11/EC and 2003/35/ EC. In respect of energy NSIPs, Annex 1 of the directive applies to thermal power stations, nuclear power stations, waste-disposal installations for the incineration, chemical treatment or land fill of toxic and dangerous wastes. Under Annex 2 it applies to industrial installations for the production of electricity, steam and hot water (i.e. CHP), industrial installations for carrying gas, steam and hot water; transmission of electrical energy by overhead cables, surface storage of natural gas, underground storage of combustible gases and installations for hydroelectric energy production. 75 The Infrastructure Planning (Environmental Impact Assessment) Regulations 2009 (SI 2009/2263). 76 The effects on human beings includes effects on health. 4.2.5 When considering cumulative effects, the ES should provide information on how the effects of the applicant's proposal would combine and interact with the effects of other development (including projects for which consent has

Assessment of Changes of Relevance

Proposed paragraph 4.2.1 also proposes the inclusion text requiring the ES to consider 'transboundary' effects. The ES submitted with the DCO Application addresses transboundary effects across all chapters and the assessments undertaken as part of this ES have determined that no transboundary impacts are likely to be experienced as a result of the Proposed Scheme as confirmed in Chapter 4 (EIA Methodology) of the ES (APP-040).

As per proposed paragraph 4.2.6, there are some details still to be finalised for which flexibility is sought. The ES therefore sets out what the likely worst-case environmental, social and economic effects of the proposed development may be to the best of the applicant's knowledge and assesses on that basis to ensure that the impacts of the project as it may be constructed have been properly assessed. This is discussed in further detail in the first row of Table 1 above.

Proposed paragraph 4.2.10 proposes additional text relating to impact on the integrity of Habitat Regulations Assessment (HRA) sites. As set out in the HRA report (document reference 6.8.1APP-185), the Proposed Scheme is not predicted to have any adverse effects on the integrity of the European Sites assessed. During the pre-application stage, Natural England have not indicated that the proposed development is likely to adversely impact the integrity of HRA sites and the Applicant stands by the conclusions of the HRA documentation. The HRA report is submitted with the DCO Application and hwas also been passed to Natural England for their comment during the pre-application stage.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	been sought or granted, as well as those already in existence)77. The IPC may also have other evidence before it, for example from appraisals of sustainability of relevant NPSs or development plans, on such effects and potential interactions. Any such information may assist the IPC in reaching decisions on proposals and on mitigation measures that may be required. 4.2.6 The IPC4.2.4 The Secretary of State should consider how the accumulation of, and interrelationship between, effects might affect the environment, economy, or community as a whole, even though they may be acceptable when considered on an individual basis with mitigation measures in place. 4.2.75 In some instances, it may not be possible at the time of the application for development consent for all aspects of the proposal to have been settled in precise detail. Where this is the case, the applicant should explain in its application which	
	elements of the proposal have yet to be finalised, and the reasons why this is the case. 4.2.86 Where some details are still to be finalised, the ES should set out, to the best of	
	the applicant's knowledge, what the maximum extent-likely worst-case environmental, social and economic effects of the proposed development may be in terms of site and plant specifications, and assess, on that basis, the effects which the project could have to ensure that the impacts of the project as it may be constructed have been properly assessed. ⁵⁷	
	4.2.9 Should the IPC determine to grant development consent for an application where details are still to be finalised, it will need to reflect this in appropriate development consent requirements. Clearly, if development consent is granted for a proposal and at a later stage the developer wishes for technical or commercial reasons to construct it in	
	such a way that its extent will be greater than has been provided for in the terms of the consent, it may be necessary to apply for a change to be made to the development consent, and the application to change the consent may need to be accompanied by further environmental information to supplement the original ES. 4.2.107 To help the	
	IPCSecretary of State consider thoroughly the potential effects of a proposed project in cases where the EIA Directive doesRegulations do not apply and an ES is not therefore required, the applicant should instead provide information proportionate to the scale of the project on the likely significant environmental, social, and economic effects.	
	References to an Environmental StatementES in this NPS and the technology specific NPSs should be taken as including a statement which provides this information, even if the EIA Directive doesRegulations do not apply. 77 For guidance on the assessment of cumulative and where the NPSs requires specific information to be provided in the ES. such information should still be provided in this statement.	
	4.2.8 In this NPS and the technology specific NPSs, the terms 'effects', 'impacts' or 'benefits' should be understood to mean likely significant effects, see, for example, Circular 02/99, Environmental impact assessment, or Guidelines for the Assessment of Indirect and Cumulative Impacts as well as Impact Interactions (http://ec.europa.eu/environment/eia/eia-studies-and-reports/guidel.pdf). 78likely significant impacts or likely significant benefits.	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	4.2.11 In this NPS and the technology-specific NPSs, the terms 'effects', 'impacts' or	
	'benefits' should be understood to mean likely significant effects, impacts or benefits. 4.350	
	Habitats and Species Regulations	
	, ,	
	4.3.1 Prior to granting a development consent order, the IPC2.9 The Secretary of State must, under the Habitats and Species Regulations79, (which implement the relevant	
	parts of the Habitats Directive and the Birds Directive80 in England and	
	Wales) Regulations, consider whether the project may have a significant effect on a	
	European protected site which is part of the National Site Network, or on any site to	
	which the same protection is applied as a matter of policy, either alone or in combination with other plans or projects. Further information on the requirements of the	
	Habitats and Species Regulations can be found in a Government Circular81.	
	Applicants should also refer to Section 5.3 of this NPS on biodiversity and geological	
	conservation. The applicant should seek the advice of Natural England and/or the	
	Countryside Council for Wales, the appropriate SNCB and provide the IPCS ecretary of	
	State with such information as itthe Secretary of State may reasonably require, to	
	determine whether an Appropriate Assessment (AA) is required. In the event that If an Appropriate Assessment AA is required, the applicant must provide the IPCSecretary of	
	State with such information as may reasonably be required to enable itthe Secretary of	
	State to conduct the Appropriate AssessmentAA. This should include information on	
	any mitigation measures that are proposed to minimise or avoid likely effects. 4.4	
	Alternatives 4.4.1 As in any planning case, the relevance or otherwise to the decision-	
	4.2.10 If, during the pre-application stage, the SNCB indicate that the proposed	
	development is likely to adversely impact the integrity of HRA sites, the applicant must	
	include with their application such information as may reasonably be required to assess a potential derogation under the Habitats Regulations. If the SNCB gives such an	
	indication at a later stage in the development consent process, the applicant must	
	provide this information as soon as is reasonably possible and before the close of the	
	examination. This information must include assessment of alternative solutions, a case	
	for Imperative Reasons of Overriding Public Interest (IROPI) and appropriate	
	environmental compensation. Applicants must have discussed with SNCB whether any proposed compensation is appropriate, and the compensation must be secured, or an	
	indication given as to how it can be secured. Provision of such information will not be	
	taken as an acceptance of adverse impacts and if an applicant disputes the likelihood	
	of adverse impacts, it can provide this information without prejudice to the Secretary of	
	State's final decision on the impacts of the potential development. If, in these	
	circumstances, an applicant does not supply information required for the assessment of	
	a potential derogation, there will be no expectation that the Secretary of State will allow the applicant the opportunity to provide such information following the examination.	
	Alternatives	
	4.2.11 As in any planning case, the relevance or otherwise to the decision-making	
	process of the existence (or alleged existence) of alternatives to the proposed	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	development is in the first instance a matter of law, detailed guidance on which falls outside the scope of this NPS. From a policy perspective this NPS does not contain any general requirement to consider alternatives or to establish whether the proposed project represents the best option.	
	4.4.2.12 However:	
	 Applicants are obliged to include in their ES, as a matter of fact, information about the mainreasonable alternatives they have studied. This should include an indication of the main reasons for the applicant's choice, taking into account the environmental, social and economic effects and including, where relevant, technical and commercial feasibility; 	
	► In some circumstances there are specific legislative requirements, notably under the Habitats Directive, for the IPC to consider alternatives. These should also be identified in the ES by the applicant; and 79 The Conservation of Habitats and Species Regulations 2010 (SI2010/490). 80 Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora; Council Directive 2009/147/EC on the conservation of wild birds. 81 Government Circular: Biodiversity and Geological Conservation — Statutory Obligations and their impact within the Planning System (ODPM 06/2005, Defra 01/2005) available via TSO website It should be noted that this document does not cover more recent legislative requirements. Where this circular has been superseded, reference should be made to the latest successor document. • in some circumstances, the relevant energy, the NPSs may impose a policy requirement to consider alternatives (as this NPS doessee below in Sections 5.34, 5.78 and 5.9). 4.10)	
	4.32.13 Where there is a policy or legal requirement to consider alternatives, the applicant should describe the alternatives considered in compliance with these requirements. Given the level and urgency of need for new energy infrastructure, the IPCSecretary of State should, subject to any relevant legal requirements (e.g., under the Habitats DirectiveRegulations) which indicate otherwise, be guided by the following principles when deciding what weight should be given to alternatives:	
	 The consideration of alternatives in order to comply with policy requirements should be carried out in a proportionate manner; 	
	 the IPC Only alternatives that can meet the objectives of the proposed development need be considered 	
	The Secretary of State should be guided in considering alternative proposals by whether there is a realistic prospect of the alternative delivering the same infrastructure capacity (including energy security—and, climate change, and other environmental benefits) in the same timescale as the proposed development; where (as in	
	~ The caseSecretary of renewables) legislation imposes a specific quantitative target for particular technologies or (as in the case of nuclear) there is reason to suppose	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	that the number of sites suitable for deployment of a technology on the scale and within the period of time envisaged by the relevant NPSs is constrained, the IPCState should not rejectrefuse an application for development on one site simply because fewer adverse impacts would result from developing similar infrastructure on another suitable site, and it should have regard as appropriate to the possibility that all suitable sites for energy infrastructure of the type proposed may be needed for future proposals;	
	 Alternatives not among the main alternatives studied by the applicant (as reflected in the ES) should only be considered to the extent that the IPCSecretary of State thinks they are both important and relevant to itsthe decision; 	
	•As the IPCSecretary of State must decideassess an application in accordance with the relevant NPS (subject to the exceptions set out in the Planning Act 2008), if the IPCSecretary of State concludes that a decision to grant consent to a hypothetical alternative proposal would not be in accordance with the policies set out in the relevant NPS, the existence of that alternative is unlikely to be important and relevant to the IPC'sSecretary of State's decision;	
	 Alternative proposals which mean the necessary development could not proceed, for example because the alternative proposals are not commercially viable or alternative proposals for sites would not be physically suitable, can be excluded on the grounds that they are not important and relevant to the IPC'sSecretary of State's decision; 	
	 Alternative proposals which are vague or inchoate can be excluded on the grounds that they are not important and relevant to the IPC's decision; and Secretary of State's decision 	
	It is intended that potential alternatives to a proposed development should, wherever possible, be identified before an application is made to the IPC in respectSecretary of itState (so as to allow appropriate consultation and the development of a suitable evidence base in relation to any alternatives which are particularly relevant). Therefore, where an alternative is first put forward by a third party after an application has been made, the IPCSecretary of State may place the onus on the person proposing the alternative to provide the evidence for its suitability as such and the IPCSecretary of State should not necessarily expect the applicant to have assessed it.	
	⁵³ Design principles should take into account any national guidance on infrastructure design, this could include for example the Design Principles for National Infrastructure published by the National Infrastructure Commission. https://nic.org.uk/studies-reports/design-principles-for-national-infrastructure/	
	⁵⁴ The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017	
	 The effects on human beings includes effects on health For guidance on the assessment of cumulative effects, see, for example, PINS Advice Note 17 regarding Cumulative Effects Assessment (August 2019) https://infrastructure.planninginspectorate.gov.uk/wpcontent/uploads/2015/12/Advice-note-17V4.pdf 	
	⁵⁷ Case law (for example Rochdale MBC Ex. Parte C Tew 1999) provides a legal principle that indicative sketches and layouts cannot provide the basis for determining applications for EIA development. The "Rochdale Envelope" is	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	a series of maximum extents of a project for which the significant effects are established. The detailed design of the project can then vary within this 'envelope' without rendering the ES inadequate.	
Habitats and Species RegulationsHealth (Part 4.3 of EN-1	4.133.1 Energy production has the potential to impact on the health and well-being ("health") of the population. Access to energy is clearly beneficial to society and to our health as a whole. However, the production, distribution and use of energy may have negative impacts on some people's health. 4.133.2 As described in the relevant sections of this NPS and in the technology specific NPSs, where the proposed project has an effect on human beings, the ES should assess these effects for each element of the project, identifying any potential adverse health impacts, and identifying measures to avoid, reduce or compensate for these impacts as appropriate. The impacts of more than one development may affect people simultaneously, so the applicant and the IPC-should consider the cumulative impact on health. 93 Further information is available at the HSE's website: http://www.hse.gov.uk/landuseplanning/nsip-applications.htm 94 Hazardous substances consent can also be applied for subsequent to a DCO application. However, the guidance in 4.12.1 still applies i.e. the application should consult with HSE at the pre-application stage and include details in their DCO 4.13 should consider the cumulative impact on health may include increased traffic, air or water pollution, dust, odour, hazardous waste and substances, noise, exposure to radiation, and increases in pests. 4.133.4 New energy infrastructure may also affect the composition-size and proximitysize of the local population, and in doing so have indirect health impacts, for example if it in some way affects access to key public services, transport or the use of open space for recreation and physical activity. 4.133.5 Generally, those aspects of energy infrastructure which are most likely to have a significantly detrimental impact on health are subject to separate regulation (for example for air pollution) which will constitute effective mitigation of them, so that it is unlikely that health concerns will either by themselves constitute a reason to refused eonsen	Proposed paragraph 4.3.5 proposes the inclusion of text requiring applicants to take opportunities to mitigate indirect impacts on health, through local improvements to health and wellbeing. As set out in the Heads of terms for a Section 106 Agreement (document-reference-7.4AS-016), the Applicant will secure a Local Employment Scheme which includes the use of local suppliers and contractors and developing opportunities for local people to access training opportunities. This will have a direct, positive effect on wellbeing. The Proposed Scheme could have a positive effect on health through the Travel Plan. The Travel Plan will include the review and implementation of construction worker travel surveys, with monitoring of travel patterns. There will also be a review of the maintenance of agreed walk / cycle routes and additional travel initiatives / incentives would be developed where appropriate following feedback and monitoring. This can encourage cycling and walking to improve health. In line with proposed paragraph 4.3.2, the ES considers the cumulative impact on health where appropriate, with modelled results demonstrating that cumulative emissions from the Proposed Scheme and other projects, including Keadby 2, would have no significant effects on local air quality with respect to human health during operation. The Applicant therefore considers the Proposed Scheme is acceptable in respect of the proposed updates to Part 4.3 of draft EN-1.
Alternatives Marine Considerations (Part 4.4 of EN-1	English Marine Area 4.4.1 Marine plans apply in the 'marine area', the area from mean high water springs to the seaward limit of the Exclusive Economic Zone (EEZ). The 'marine area' also includes the waters of any estuary, river or channel, so far as the tide flows at mean	The inclusion of policy relating to Marine Considerations is proposed in the draft EN-1. Of relevance to this DCO Application, proposed paragraph 4.4.1 explains that the 'marine area' includes the waters of any river "so far as the tide flows at mean high water spring tide". This is therefore relevant is respect of the River Ouse to the north.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	high water spring tide. 4.4.2 Marine plans set out marine specific aspects of many of the assessment principles in Part 4 of this NPS. For example, criteria for 'good design' for energy infrastructure (Section 4.6) and climate change adaptation (Section 4.9). Plan policies cover a wide range of topics in Part 5 of this NPS, including landscape and visual (Section 5.10), noise and vibration (Section 5.12) and water quality (Section 5.16). Individual Marine Plans should be consulted to understand marine relevant specific considerations. 4.4.3 Section 104(2) (aa) of the Planning Act 2008 requires the Secretary of State to have regard to any appropriate marine policy documents when making a decision on an application for a development consent order where an NPS has effect. This will include any Marine Plan which is in effect for the relevant area. 4.4.4 In making a decision, the Secretary of State is responsible for determining how the Marine Plan informs the decision-making process. For example, the Secretary of State will determine if and how proposals meet the high-level marine objectives, plan vision, and all relevant policies. In the event of a conflict between an NPS and any marine planning documents, the NPS prevails for purposes of decision making. 4.4.5 Applicants for a development consent order will need to take account of any relevant Marine Plans. There is an expectation that applicants will complete a Marine Plan assessment as part of their project development and this information should be used to support an application for development consent. Applicants are encouraged to refer to Marine Plans at an early stage, such as in advance of pre-application stage, to inform project planning, for example to avoid less favourable locations as a result of other uses or environmental constraints. 58 Where a decision is made under s105 of the Planning Act, section 58(3) of the Marine and Coastal Access Act 2009 will similarly require the Secretary of State to have regard to the marine plan.	However, no works are proposed at the River Ouse, and Chapter 12 (Water Environment) of the ES (document reference 6.1.12APP-048) concludes that no significant adverse effects are predicted on the River Ouse as a result of the Proposed Scheme. A 30 m offset from the River Ouse has been implemented to avoid impacts to habitats related with the watercourse. The Applicant therefore considers that no further assessment is required in respect of Part 4.4 of draft EN-1.
Criteria for "good design" for energy infrastructure Environmental and Biodiversity Net Gain (Part 4.5 of EN-1	4.5.1 Environmental net gain is an approach to development that aims to leave the natural environment in a measurably better state than beforehand. Applicants should therefore not just look to mitigate direct harms, but also consider whether there are opportunities for enhancements. Biodiversity net gain is an essential component of environmental net gain. Projects should consider and seek to incorporate improvements in natural capital, ecosystem services and the benefits they deliver when planning how to deliver biodiversity net gain. 4.5.2 Although achieving biodiversity net gain is not an obligation for projects under the Planning Act 2008, energy NSIP proposals should seek opportunities to contribute to and enhance the natural environment by providing net gains for biodiversity where	Proposed new Section 4.5 relates to environmental matters and BNG. Proposed paragraph 4.1.5 confirms that BNG is an essential component of environmental net gain, which applicants are encouraged to address through looking for opportunities for enhancement, not just mitigating direct harms. However, proposed paragraph 4.5.2 confirms that achieving BNG is not an obligation for NSIPs, albeit it is encouraged, where possible. Notwithstanding this, proposed footnote no. 59 references the amendment to the Environment Bill (2021) and explains the SoS may not grant development consent "unless satisfied that a biodiversity gain objective is met in relation to the development to which the application relates. The biodiversity gain objective will be set out in a biodiversity gain statement." The Government recently consulted on

what this could look like in practice.

As explained above, a BNG Assessment (document reference 6.10APP-196) is submitted

with the DCO Application. The BNG Assessment confirms the Proposed Scheme cannot

achieve BNG at present, but the Applicant is committed to achieving this, and ecological

enhancement measures proposed which are set out in the Heads of Terms for a section

106 Agreement (document reference 7.1AS-016) also support the delivery of BNG.

possible⁵⁹. Applicants are encouraged to use the most current version of the Defra

gain should be applied in conjunction with the mitigation hierarchy and does not

change or replace existing environmental obligations.

biodiversity metric⁶⁰ to calculate their biodiversity baseline and inform their biodiversity

net gain outcomes and to present this data as part of their application. Biodiversity net

Policy Emerging Policy Text Detailing Changes Assessment of Changes of Relevance 4.5.3 In addition to delivering biodiversity net gain, developments may also deliver The BNG Assessment confirms the Proposed Scheme can demonstrate a net gain in wider environmental gains relevant to the local area, and to national policy priorities, hedgerow units and a no-net loss in river units at present. The Applicant is liaising with the such as reductions in GHG emissions, reduced flood risk, improvements to air or water EA with regard to achieving net gain and will undertake further calculations during the detailed design stage. quality, or increased access to natural greenspace. The scope of potential gains will be dependent on the type, scale, and location of specific projects. Applications for In addition, the Outline Biodiversity and Landscape Strategy (OLBS) (document reference development consent should be accompanied by a statement demonstrating how 6.6AS-094) outlines the mitigation measures required to safeguard biodiversity during opportunities for delivering wider environmental net gains have been considered, and construction, including compensatory measures to offset predicted losses of habitats as a where appropriate, incorporated into the design (including any relevant operational result. The measures aim to ensure impacts are minimised as far as practicably possible. It aspects) of the project. Applicants should make use of available guidance and tools for also outlines enhancement measures for existing landscape and biodiversity features and measuring natural capital assets and ecosystem services, such as the Natural Capitals how they would be managed and maintained, including the creation of new habitats that Committee's 'How to Do it: natural capital workbook' and Defra's guidance on Enabling would provide additional opportunities for biodiversity whilst enhancing the landscape a Natural Capital Approach (ENCA). Where environmental net gain considerations character. have featured as part of the strategic options appraisal process to select a project, the Proposed paragraph 4.5.4 suggests developments may also consider delivering wider statement should reference that information to supplement the site-specific details. environmental gains. The ES confirms that the Proposed Scheme will result in a net 4.5.4 Part 5 of this NPS provides guidance on the impacts of new energy infrastructure reduction in GHG emissions and may also result in a betterment in surface water drainage. Opportunities are identified in a number of sections relating to environmental, social Resource consumption will also be bettered through utilising rainwater for cooling, as and economic enhancements, protection and mitigation measures. opposed to water from the River Ouse. ⁵⁹ Although achieving biodiversity net gain is not currently an obligation on applicants, a proposed amendment to the Overall, the Applicant therefore considers that the Proposed Scheme meets the Environment Bill (see https://bills.parliament.uk/bills/2593/stages/15298/amendments/87948), would mean the Secretary of State may not grant an application for Development Consent Order unless satisfied that a biodiversity requirements of Part Policy 4.5 of draft EN-1. gain objective is met in relation to the development to which the application relates. The biodiversity gain objective will be set out in a biodiversity gain statement. Normally these statements will be included within NPS but the amendment allows for the statement to be published separately where a review of an NPS has begun before the proposed amendment comes into force. This would be the case with the energy NPS, should the amendment come 60 The Biodiversity Metric can be found at http://publications.naturalengland.org.uk/publication/5850908674228224 Criteria for "Good Design" 4.56.1 The visual appearance of a building, structure, or piece of infrastructure, and In accordance with proposed paragraph 4.6.2, the Design Framework (document reference for Energy Infrastructure how it relates to the landscape it sits within, is sometimes considered to be the most 6.9APP-195) establishes the hard and soft landscaping design principles for the Proposed **Consideration of Combined** important factor in good design. But high quality and inclusive design goes far beyond Scheme and will act as a guideline for the detailed design stage. The design principles set Heat and Power (CHP) aesthetic considerations. The functionality of an object —- be it a building or other type out in the Design Framework are included in the REAC (AS-092). A requirement in (Part 4.6 of EN-1) of infrastructure — including fitness for purpose and sustainability, is equally Schedule 2 to the DCO contains provisions to control and approve the detailed design of important. Applying "good design" to energy projects should produce sustainable the Proposed Scheme, to ensure that visual impacts would be minimised where possible. infrastructure sensitive to place, efficient in the use of natural resources and energy The detailed design requirements require the detailed design submitted for approval to used in their construction and operation, matched by an appearance that demonstrates accord with those design principles set out in the Design Framework and REAC. These good aesthetic as far as possible. It is acknowledged, however that the nature of much details, for example would, for example, would include appropriate colours and textures of infrastructure where possible. energy infrastructure development will often limit the extent to which it can contribute to the enhancement of the quality of the area. -The Design Framework demonstrates how achieving 'good design' has been a

buildings.

4.56.2 Good design is also a means by which many policy objectives in the NPS can

be met, for example the impact sections show how good design, in terms of siting and

use of appropriate technologies, can help mitigate adverse impacts such as noise.

4.5 Given the benefits of "good design" in mitigating the adverse impacts of a project,

applicants should consider how "good design" can be applied to a project during the

consideration of the Proposed Scheme from conception. This is also demonstrated through

Consultation Report (document reference 5.1APP-018). As per proposed paragraph 4.6.1,

the pre-application consultation undertaken with relevant stakeholders, as set out in the

these design principles are to be applied to all structures and infrastructure as well as

Policy Emerging Policy Text Detailing Changes Assessment of Changes of Relevance early stages of the project lifecycle. Design principles⁶¹ should be established from the In line with proposed paragraph 4.6.3, the Applicant has assessed visual impacts on the outset of the project to guide the development from conception to operation. landscape. These impacts are explained in Table B.1 above of Appendix B and in Chapter 9 (Landscape and Visual ImpactAmenity) of the ES (document reference 6.1.9APP-045). 4.6.3 In the light of the above, and given the importance which the Planning Act 2008 places on good design and sustainability, the IPCSecretary of State needs to be Proposed paragraph 4.6.3 also states "Applicants should also, so far / as is possible, seek satisfied that energy infrastructure developments are sustainable and, having regard to to embed opportunities for nature inclusive design within the design process." regulatory and other constraints, are as attractive, durable, and adaptable (including Given the energy infrastructure related nature of the Proposed Scheme and that it will taking account of natural hazards such as flooding) as they can be. In-so doing so, the comprise an extension to existing energy infrastructure, on previously developed land; IPCSecretary of State should satisfy itself be satisfied that the applicant has taken into opportunities for 'nature inclusive design' are restricted. However, the ecological account both functionality (including fitness for purpose and sustainability) and enhancements are proposed, as explained in the OLBS (document reference 6.6AS-094). aesthetics (including its contribution to the quality of the area in which it would be As explained above, BNG will also be sought. located, any potential amenity benefits, and visual impacts on the landscape or Based on the above, the Applicant considers the Proposed Scheme accords overall with seascape) as far as possible. Whilst the applicant may not have any or very limited the additional text proposed for Part 4.6 of draft EN-1. choice in the physical appearance of some energy infrastructure, there may be opportunities for the applicant to demonstrate good design in terms of siting relative to existing landscape character, landformlandform and vegetation. Furthermore, the design and sensitive use of materials in any associated development such as electricity substations will assist in ensuring that such development contributes to the quality of the area. 4.5.4 For the IPC Applicants should also, so far / as is possible, seek to embed opportunities for nature inclusive design within the design process. 4.6.4 For the Secretary of State to consider the proposal for a project, applicants should be able to demonstrate in their application documents, how the design process was conducted and how the proposed design evolved. Where a number of different designs were considered, applicants should set out the reasons why the favoured choice has been selected. In considering applications, the IPCSecretary of State should take into account the ultimate purpose of the infrastructure and bear in mind the operational, safety and security requirements which the design has to satisfy. 4.5.5 Applicants and the IPCMany of the wider impacts of a development, such as landscape and environmental impacts, will be important factors in the design process. The Secretary of State will consider such impacts under the relevant policies in this NPS. Assessment of impacts must be for the stated design life of the scheme rather than a shorter time period. 4.6.5 Applicants and the Secretary of State should consider taking independent professional advice on the design aspects of a proposal. In particular, the Design Council CABE can be asked to provide design review for nationally significant infrastructure projects and applicants are encouraged to use this service82.service.62 4.56.6 Further advice on what the IPCSecretary of State should expect applicants to

demonstrate by way of good design is provided in the technology- specific NPSs where

⁶¹ Design principles should take into account any national guidance on infrastructure design, this could include for example the Design Principles for National Infrastructure published by the National Infrastructure Commission.

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/8009/110520-

https://nic.org.uk/studies-reports/design-principles-for-national-infrastructure

62 The Chief Planner's 2011 Letter about design and planning can be found here:

relevant.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	Letter_to_Chief_Planning_OfficersDesign_and_Planning.pdf Further information on the Design Council can be found here:	
Consideration of Combined Heat and Power (CHP) Carbon Capture and Storage (CCS) and Carbon Capture Readiness (CCR) (Part 4.7 of EN-1	4.67.1 Combined Heat and Power (CHP) is the generation of usable heat and electricity in a single process. A CHP station may either supply steam direct to customers or capture waste heat for low-pressure steam, hot water, or space heating purposes after it has been used to drive electricity generating turbines. The heat can also be used to drive absorption chillers, thereby providing cooling. 4.67.2 In conventional thermal generating stations, the heat that is raised to drive electricity generation is subsequently emitted to the environment as waste. Supplying steam direct to industrial customers or using lower grade heat, such as in district heating networks, can reduce the amount of fuel otherwise needed to generate the same amount of heat and power separately. CHP is technically feasible for allmany types of thermal generating stations, including nuclear, energy from wasteEfW, BECCS and biomasshydrogen, although the majority of CHP plants in the UK are fuelled by gas. 4.67.3 Using less fuel to generate the same amount of heat and power reduces emissions, particularly CO2. The Government has therefore committed to promoting Good Quality CHP, which denotes CHP that has been certified as highly efficient under the CHP Quality Assurance programme. In accordance with the EU Cogeneration Directive, schemes Schemes need to achieve at least 10% primary energy savings compared to the separate generation of heata specified quality index and power efficiency in order to qualify for Gevernmentgovernment support associated with the programme. 4.67.4 In 20092019, there was 5.6 GW.1GW of Good Quality CHP in the UK, providing over 7.3% of electricity and saving an estimated 910.5 MtCO2 per annum. There is a recognised cost-effective potential for a further 10 GW of Good Quality CHP, estimated to continue to effer a further saving of 175 MtCO2 by 201583 provide benefits due to efficiencies inherent in cogeneration. 4.67.5 To be economically viable as a CHP plant, a generating station needs to be	Specific mention of BECCS technology is proposed at paragraph 4.7.2 where it states CHP is technically feasible. The other policy changes proposed do not impact the assessment of adopted EN-1 CHP policy. Therefore, the assessment provided at-in Table B-1 aboveof Appendix B, which demonstrates that CHP is not suitable for the Proposed Scheme, remains relevant. The Applicant therefore considers the Proposed Scheme to be in accordance with Part 7.4 of draft EN-1.
	located close to industrial or domestic customers with heat demands. The distance will vary according to the size of the generating station and the nature of the heat demand. For industrial purposes, customers are likely to be intensive heat users such as chemical plants, refineries, or paper mills. CHP can also be used to provide lower grade heat for light industrial users such as commercial greenhouses, or more commonly for hot water and space heating, including supply through district heating networks. A 2009 report for DECC84 on district heating networks suggested that, for example, a district heating network using waste heat from a generating station would 82	
	http://www.communities.gov.uk/publications/planningandbuilding/letterdesignplanning83 http://www.defra.gov.uk/environment/climatechange/uk/energy/chp/pdf/potential-report.pdf 84 "The Potential and Costs of District Heating Networks", Pöyry and Faber Maunsell, April 2009. be cost-effective where there was a demand for 200 MWth of	

Page 76 of 156

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	heat within 15 km. Additionally, the provision of CHP is most likely to be cost-effective and practical where it is included as part of the initial design and is part of a mixed-use development. For example, retrofitting a district heating network to an existing housing estate may not be efficient.	
	4.7.6.6 Under guidelines Guidance issued by DECC (the then Department for Trade and Industry (DTI) in 200685,200663 will apply to any application to develop a thermal generating station under Section 36 of the ElectricityPlanning Act 19892008. Applications for thermal stations must either include CHP proposals or contain evidence that the possibilities for CHP have been fully explored to inform the IPC'sSecretary of State's consideration of the application. This should be through an audit trail of dialogue between the applicant and prospective customers. The same principle applies to any thermal power station which is the subjectSecretary of an application for development consent under the Planning Act 2008. The IPCState should have regard to DECC'sthe 2006 guidance, or any successor to it, when	
	considering the CHP aspects of applications for thermal generating stations. 4.67.7 In developing proposals for new thermal generating stations, developersapplicants should consider the opportunities for CHP from the very earliest point, and it should be adopted as a criterion when considering locations for a project. Given how important liaison with potential customers for heat is, applicants should not only consult those potential customers they have identified themselves but also bodies such as the Homes and Communities Agency (HCA), Local Enterprise Partnerships (LEPs) and Local Authorities and obtain their advice on opportunities for CHP. Further advice is contained in the 2006 DECC guidelinesDTI guidance and applicants should also consider relevant information in regional and local energy and heat demand mapping.	
	4.67.8 Utilisation of useful heat that displaces conventional heat generation from fossil fuel sources is to be encouraged where, as will often be the case, it is more efficient than the alternative electricity/heat generation mix. To encourage proper consideration of CHP, substantial additional positive weight should therefore be given by the IPC to applications incorporating CHP. If the proposal is for thermal generation without CHP, the applicant should:	
	 Explain why CHP is not economically or practically feasible for example if there is a more energy efficient means of satisfying a nearby domestic heat demand; Provide details of any potential future heat requirements in the area that the station could meet; and • • detail the provisions in the proposed scheme for ensuring any potential heat demand in the future can be exploited. 4.6 	
	Given the importance which government attaches to CHP, if an application does not demonstrate that CHP has been considered the Secretary of State should seek further information from the applicant. The Secretary of State should not give development consent unless satisfied that the applicant has provided appropriate evidence that CHP is included or that the opportunities for CHP have been fully explored. For non-CHP stations, where there is reason to believe that opportunities	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	to supply heat through CHP may arise in the future, the Secretary of State may also require that developers ensure that their stations are 'CHP ready' and are designed in order to allow heat supply at a later date	
	4.7.9 CHP may require additional space than for a non-CHP generating station. It is possible that this might conflict with space required for a generating station to be Carbon Capture ReadyCCR, as set out in Section 4.78. The material provided by applicants should therefore explain how the development can both be ready to provide CHP in the future, and also be Carbon Capture 85 Guidance on background information to accompany notifications under Section 14(1) of the Energy Act 1976 and applications under Section 36 of the Electricity Act 1989. ReadyCCR, or set out any constraints (for example space restrictions) which would prevent this.	
	4.67.10 If the IPCSecretary of State is not satisfied with the evidence that has been provided, itthe Secretary of State may wish to investigate this with one or more of the bodies such as the HCA, LEPs and Local Authorities.	
	4.67.11 Furthermore, if the IPCSecretary of State, when considering an application for a thermal generating station, identifies a potential heat customer that is not explored in the application (for instance, on the advice of the HCA or Local Authorities), itthe Secretary of State should request that the applicant pursues this. Should the applicant not be able to reach an agreement with a potential customer, it should provide evidence demonstrating why it was not possible.	
	4.67.12 The IPCSecretary of State may be aware of potential developments (for example from the applicant or a third party) which could utilise heat from the plant in the future, for example planned housing, and which is due to be built within a timeframe that would make the supply of heat cost-effective. If so, the IPCSecretary of State may wish to impose requirements to ensure that the generating station is CHP-ready unless the IPCSecretary of State is satisfied that the applicant has demonstrated that the need to comply with the requirement to be Carbon Capture ReadyCCR will preclude any provision for CHP. 63 Guidance on background information to accompany notifications under Section 14(1) of the Energy Act 1976 and applications under Section 36 of the Electricity Act 1989.	
Climate change adaptationCarbon Capture and Storage (CCS) (Part 4.8 of EN-1	CCS 4.78.1 Carbon Capture and Storage (CCS) is an emerginga technology that enables carbon dioxide that would otherwise be released to the atmosphere to be captured and permanently stored. It can be applied to any large point source of carbon dioxide, such as fossil fuel power stations or other industrial processes that are high emitters. Carbon capture technologies are able to remove up to 90% of the carbon dioxide that would otherwise be released to the atmosphere and offers the opportunity	Proposed paragraph 4.8.2 highlights the Government's support for CCS. Proposed paragraph 4.8.3 acknowledges that power CCS facilities will have an impact on the surrounding landscape and visual amenity, and that they will give rise to noise and vibrations. Additional text proposed at paragraph 4.8.3 generally provides guidance for DCO
	for fossil fuels to continue to be an important element of a secure and diverse low carbon energy mix. 4.7.2 The chain of CCS has three links: capture of carbon, transport, and storage. There are three types of capture technology: ●thermal generating power stations or other industrial processes that are high emitters. Carbon capture rates achieved will depend on the application and a minimum capture rate may be required. Carbon capture technologies offer the opportunity to decarbonise the	applications for generating stations with CCS, not just CCS development as per the Proposed Scheme. As per proposed paragraph 4.8.4, additional consents will be required to deliver the Proposed Scheme, which are set out in Other Consents and Licenses document

Policy Emerging Policy Text Detailing Changes electricity system whilst maintaining security of supply, providing reliable low carbon generation capacity. 4.8.2 The government has made its ambitions for CCS clear⁶⁴ - committing to providing funding to support the establishment of CCS in at least four industrial clusters by 2030 and supporting, using consumer subsidies, at least one privately financed gas CCS power station by 2030. The barriers to CCS deployment to date have been commercial rather than technical, and the business models, which may evolve over time, aim to support the deployment of the technology. Part 3 of this NPS sets out the need for CCS and the role power CCS could play in our electricity system in more detail.

Assessment of Changes of Relevance

(document reference 5.5APP-035). The EA has recognised carbon capture as a technology and as such has issued best available techniques guidance.

UK CCS clusters are mentioned in proposed paragraph 4.8.6, where it acknowledges "development consent applications for power CCS projects may not include an application for consent for the full CCS chain (including the onward transportation and storage of CO2)", as per the Proposed Scheme, which seeks consent for the 'carbon capture link' only. Details of how the captured CO₂-carbon dioxide is intended to be transported and stored is explained in Section 1.3 of the Planning Statement (APP-032), in line with proposed paragraph 4.8.6. Details of how cumulative impacts will be assessed and whether any necessary consents, permits and licences have been obtained for the transport and storage links are not yet known.

Proposed paragraph 4.8.6 goes on to provide advice relating to CO2 carbon dioxide transport pipelines. As explained at Section 1.3 of the Planning Statement, the transport and storage 'links' will be the subject of separate consent applications by third parties, such as by NGCL, and include the construction of a pipeline as part of the HLCP project, to accommodate the transportation of CO2-carbon dioxide ('transport link') to the Endurance storage site under the North Sea ('storage link').

Further to the above, the assessment of the adopted relevant policy still stands, and addresses the remaining proposed paragraphs of Part 4.8 of draft EN-1. This is presented at Table B.1 above of Appendix B.

Based on the above, the Applicant considers the Proposed Scheme accords with the proposed text of Part 4.8 of draft EN-1.

4.8.3 The types of environmental impacts of a gas-fired power CCS station should be similar to an unabated gas-fired power station, and so the assessment principles for the generating station covered in EN-2 should be similarly applied. Gas-fired power CCS stations may still emit residual CO₂ and so will be required to comply with any Emissions Performance Standards (EPS) that might be applicable, but this is not part of the development consent process. The carbon capture plant required for a new build power CCS plant can be included as associated development in the application for development consent for the relevant thermal generating station and will then be considered as part of that application. A supply of water will be needed for CCS processes and the volumes required will depend on the carbon capture technology used. Power CCS facilities will have an impact on the surrounding landscape and visual amenity. As set out in Section 2.6 of EN-2, the main structures of a thermal generating stations could be large, and so may have landscape and visual impacts. Carbon capture facilities could also be significant in size - they may require additional space to the generating facility which will need to be included within the design and EIA. For example, the main direct contact cooler, CO₂ absorber column and regenerator towers in post-combustion plants can be tall, but the overall size will be dependent on the technology and design. As set out in Section 2.7 of EN-2, there will be noise and vibration impacts associated with the generating station. The carbon capture plant will also have noise and vibration impacts. Planning applications for generating stations with CCS should provide evidence that shows technically feasible plans for the CO₂ capture plant, an ES that addresses impacts arising from the project and documentation to ensure compliance with all other existing policy, including that any of the plant's capacity which is not to be fitted with carbon capture at the outset meets the requirements for Carbon Capture Readiness (CCR). An Environmental Permit (EP) will also be required from the Environment Agency (EA) or Natural Resources Wales (NRW) which incorporates conditions for operation of the carbon capture and storage installation.

4.8.4 There are several different capture techniques which might have slightly different environmental impacts and considerations. These should be set out in the planning

substances consent for solvents required during the capture process. The Secretary of State should have regard to advice from the EA or NRW as to the technical feasibility

application. For example, some capture technologies may require hazardous

Drax Bioenergy with Carbon Capture and Storage National Policy Statement Compliance Tracker

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	of the proposed carbon capture technology. The Secretary of State may also seek	
	further independent advice but is not required to do so.	
	4.8.5 Examples of three types of capture technology are:	
	 Pre-combustion capture: this method involves reacting fuel with oxygen or air, and in some cases steam, to produce a gas consisting mainly of carbon monoxide and hydrogen. The carbon monoxide is reacted with more steam in a catalytic shift converter to produce more hydrogen and CO₂. The CO₂ is then separated, and the hydrogen is used as fuel in a combined cycle gas turbine generating station. For coal, this method is based on integrated coal gasification combined cycle (ICGCC) technology. Post-combustion capture: this uses solvents or other methods to scrub CO₂ out of flue gases. The CO₂ is then released as a concentrated gas stream by a regeneration process. Post-combustion capture is applicable to pulverised coal 	
	generating stations.	
	Oxy-fuel combustion: in this process, fuel is burnt in an oxygen/CO ₂ mixture rather than air to produce a flue gas that is predominantly CO ₂ . For gas-fired plants the technology could be used with a combined cycle system. Other oxy-fuel combustion power CCS plants are being developed using novel non-combined cycle systems.	
	4.8.6 The chain of CCS has three links: capture of carbon, transport, and storage. Due to the approach of deploying CCS in clusters in the UK with shared transport and storage infrastructure, it is likely that development consent applications for power CCS projects may not include an application for consent for the full CCS chain (including the onward transportation and storage of CO ₂). However, development consent applications for power CCS projects should include details of how the captured CO ₂ is intended to be transported and stored, how cumulative impacts will be assessed and whether any necessary consents, permits and licences have been obtained.	
	4.8.7 Applicants gaining consent for CCS infrastructure will need a range of consents from different bodies. One method for transporting captured carbon dioxide is through pipelines. These will be located both onshore and offshore. With coal the technology	
	would be deployed with a suitably modified pulverised coal combustion system, whilst with gas it could be used with a combined cycle system. 4.7.3 Once carbon dioxide has been captured, it is then compressed and transported, before being Onshore pipelines	
	over 16.093 kilometres in length classify as NSIPs and require a development consent order. The operation of the CCS chain will require permits from the EA or NRW. There are currently no cross-country carbon dioxide pipelines in the UK and considerable	
	investment in pipelines will be required for the wider deployment of CCS. This initial investment could form the basis of more extensive carbon dioxide pipeline networks, which are likely to require greater capacity pipelines. In considering applications, the	
	Secretary of State should, therefore, take into account that the government will expect applicants to take into account foreseeable future demand when considering the size	
	and route of their investments and applicants may therefore propose pipelines with a	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	greater capacity than demand at the time of consenting might suggest. Existing legislation (The Pipeline Safety Regulations 1996) already provides powers to require modification of pipelines where this would reduce the need for additional pipelines to be constructed in the future. Another method for transporting carbon dioxide is by ship. Ports would enable the transfer of carbon dioxide from onshore infrastructure onto ships. Ports and associated infrastructure that process at least 5Mt of carbon dioxide per year would qualify as NSIP Projects and require a development consent order from the Department for Transport. Such applications would be considered under the National Policy Statement for Ports, but the need for CCS infrastructure set out in this	
	NPS is likely to be a relevant consideration. 4.8.8 CO ₂ can be permanently stored in deep geological formations, such as depleted oil and gas fields and saline aquifers. In the UK, the majority of locations thought to be best suited to storage of CO ₂ are located offshore. 4.7.4 The Government has taken a	
	number of steps to facilitate and encourage the demonstration of CCS technology. The demonstration programme described in 3.6.5 focused initially on coal-fired power stations. This is because the emissions from coal generation are substantially higher than from other fuels, including gas; the projected increase in coal use globally creates a greater urgency to tackling emissions from coal; tackling emissions from coal first makes most economic sense because of the greater emissions intensity; and new coal	
	generating stations would contribute to the diversity and security of UK energy supplies as we make the transition to a low carbon mix. However, CCS will also be required for other combustion generating stations in future and the Government has therefore extended the demonstration programme to include gas-fired generating stations. 4.7.5 All commercial scale fossil fuelled generating stations have to be carbon capture ready	
	(see CCR Section below). In addition to satisfying the CCR criteria, to reduce CO ₂ emissions new coal-fired generating stations, or significant extensions to existing stations, in England or Wales must have CCS on at least 300 MW net of the proposed generating capacity and secure arrangements for the transport and permanent storage of carbon dioxide. Coal-fired generating stations of less than 300 MW net capacity	
	should show that the proposed generating station will be able to capture CO ₂ from their full capacity. Operators of fossil fuel generating stations will also be required to comply with any Emission Performance Standards (EPS) that might be applicable, but this is not part of the consents process. 4.7.6 Given this requirement to fit a technology which is at a relatively early stage of development, and therefore very costly, it is unlikely that	
	any coal-fired plants will be built in the foreseeable future without financial support for CCS demonstration. However it is possible that developers may wish to submit applications in advance of securing funding. Any decision on a planning application for a new coal-fired generating station should be made independently of any decision on allocation of funding for CCS demonstration. This may mean, therefore, that planning	
	consent could be given to more applications than will be able to secure financial support for CCS demonstration. 4.7.7 The most likely method for transporting the captured carbon dioxide is through pipelines. The UK has an estimated offshore CO ₂ storage capacity of 78Gt/CO ₂ ⁶⁵ enough to store the equivalent of current total UK	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	annual emissions for over 200 years. The development of an offshore CO ₂ storage	
	industry will play a key role in helping to ensure the transition to a net zero economy.	
	Establishing an offshore storage industry could also make the UK a global leader in	
	storage services as countries eager to meet emissions targets pursue carbon capture.	
	As the global CCS market increases, the UK can capture £4.3 billion of GVA per	
	annum from exports by 205066. We do not currently envisage an onshore CO2 storage	
	industry developing against this backdrop. Efficiently maximising our offshore CO2	
	storage capacity offers the best opportunity to realise our ambitions for CO ₂ storage as	
	set out in the Ten Point Plan. Offshore CO ₂ transport and storage infrastructure will	
	require an applicant to secure a Carbon Dioxide Appraisal and Storage Licence and a	
	Storage Permit; a Carbon Storage Lease and a Seabed Lease; offshore pipelines	
	require a Pipeline Works Authorisation and a Demonstration of Safety. Offshore CO ₂	
	transport and storage proposals will need to be supported by an EIA. A suite of	
	environmental approvals will also be required for the construction, development and	
	the operational phase.	
	Carbon Capture Readiness ⁶⁷	
	4.8.9 To ensure that no foreseeable barriers exist to retrofitting CCSThese will be	
	located both onshore and offshore. There are currently no carbon dioxide pipelines in	
	the UK and considerable future investment in pipelines will be required for the purpose	
	of the demonstration programme. If CCS is deployed more widely, it is likely that these	
	initial investments could form the basis of a wider carbon dioxide pipeline network,	
	which is likely to require greater capacity pipelines. In considering applications the IPC	
	should therefore take into account that the Government wants developers to bear in	
	mind foreseeable future demand when considering the size and route of their	
	investments and may therefore propose pipelines with a greater capacity than	
	necessary for the project alone. Existing legislation already provides powers to require	
	modification of pipelines where this would reduce the need for additional pipelines to be	
	constructed in the future. 4.7.8 To construct a coal power station with the full CCS	
	chain, applicants will need a range of consents from different bodies. These include a	
	CO ₂ -storage licence and (if appropriate) consent for both on and offshore pipeline	
	construction. An environmental permit will be required from the Environment Agency	
	(EA) which incorporates conditions for operation of the CCS chain. 4.7.9 Further	
	information on the CCS obligations to be imposed on new coal-fired power stations will	
	be available in guidance issued by DECC86. The IPC must follow this CCS guidance,	
	or any successor to it, when considering applications for combustion generating	
	stations. CCR 4.7.10 To ensure that no foreseeable barriers exist to retrofitting carbon	
	capture and storage (CCS) equipment on combustion generating stations, all	
	applications for new combustion plant which are of generating capacity at or over 300	
	MW87300MW and of a type covered by the EU's Large Combustion Plant Directive	
	(LCPD)88The Carbon Capture Readiness (Electricity Generating Stations) Regulations	
	2012 should domenate to that the plant is "Carbon Capture Boody" (CCR) before	

2013 should demonstrate that the plant is "Carbon Capture Ready" (CCR) before

consent may be given. The IPCSecretary of State must not grant consent unless this is the case. In order to assure the IPCSecretary of State that a proposed development is

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	CCR, applicants will need to demonstrate that their proposal complies with guidance issued by the Secretary of State in November 200989200968 or any successor to it. The guidance requires:	
	 That sufficient space is available on or near the site to accommodate carbon capture equipment in the future; 	
	~ The technical feasibility of retrofitting their chosen carbon capture technology;	
	That a suitable area of deep geological storage offshore exists for the storage of captured CO₂ from the proposed combustion station; 86 Draft Guidance was issued for consultation in November 2009. 87 The threshold set for this CCR requirement is capacity measured in MW electricity (MWe) for combustion plants which are covered by the LCPD, consistent with the requirements of Article 9a of the LCPD, as inserted by Article 33 of the EU Directive on the Geological Storage of Carbon Dioxide (2009/31/EC). This article requires applicants to carry out CCR assessments, and it requires Member State authorities (in this case, the IPC) to ensure that suitable space for the capture equipment is set aside. The policy set out here represents the implementation of Article 9a as regards Great Britain, but it also goes beyond what the Directive requires, as explained in DECC guidance. 88 2001/80/EC. Energy from waste plants are not covered by the LCPD. 89 Carbon Capture Readiness A guidance note for Section 36 Applications URN09D/810 http://www.decc.gov.uk/en/content/cms/what_we_do/uk_supply/consents_planning/	
	 guidance.aspx) ● the technical feasibility of transporting the captured CO₂ to the proposed storage area; and The technical feasibility of transporting the captured CO₂ to the proposed storage 	
	 area The economic feasibility within the combustion station's lifetime of the full CCS chain, covering retrofitting, transport and storage. 	
	4.7.118.10 Government envisages that the technical feasibility study for retrofitting CCS equipment will take the form of a written report and accompanying plant designs which:	
	 Make clear which capture technology is currently considered most appropriate for retrofit in the future to the power station; and 	
	 Provide sufficient detail to enable the EA or NRW to advise the Secretary of State on whether the applicant has sufficiently demonstrated there are no currently known technical barriers to subsequent retrofit of the declared capture technology- 	
	4.7.128.11 The assessment of technological feasibility could be against either:	
	~ •An appropriate reference document ; or	
	 By the provision of sufficient technical detail by the applicant in their submitted plans and discussions with the advisory body. 4.7.13 	
	4.8.12 Applicants should conduct a single economic assessment which encompasses retrofitting of capture equipment, CO ₂ transport and the storage of CO ₂ Applicants	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	should provide evidence of reasonable scenarios, taking into account the cost of the capture technology and transport option chosen for the technical CCR assessments and the estimated costs of CO ₂ storage, which make operational CCS economically feasible for the proposed development.	
	4.7.148.13 The preparation of an economic assessment will involve a wide range of assumptions on each of a number of factors, and Governmentgovernment recognises the inherent uncertainties about each of these factors. There can be no guarantee that an assessment which is carried out now will predict with complete accuracy either in what circumstances it will be feasible to fit CCS to a proposed power station or when those circumstances will arise, but it can indicate the circumstances which would need to be the case to allow operational CCS to be economically feasible during the lifetime of the proposed new station.	
	4.7.158.14 A model assessment structure is suggested in DECC's CCR guidanceguidance ⁶⁹ , although this is not the only way which the assessment could be addressed. It is the responsibility of applicants to justify the capture, transport and storage options chosen for their proposed development.	
	4.7.168.15 The IPCSecretary of State should consult the EA or NRW on the technical and economic feasibility assessments. The IPCSecretary of State should also have regard to advice from the EA or NRW as to the suitability of the space set aside on or near the site for CCS equipment. If the IPCSecretary of State, having considered these assessments and other available information including comments by EA or NRW, concludes that it will not be technically and economically feasible to retrofit CCS to a proposed plant during its expected lifetime, then the proposed development cannot be judged to be CCR and therefore cannot receive consent.	
	4.7.178.16 If granted consent, operators of the power station will be required to:	
	 Retain control over sufficient additional space on or near the site on which to install the carbon capture equipment and the ability to use it for that purpose; 	
	 Submit update reports on the technical aspects of its CCR status to the Secretary of State for DECCBEIS. These reports will be required within 3 months of the commercial operation date of the power station (so avoiding any burden on the operator with an unimplemented consent) and every two years thereafter. Should CCS equipment be retrofitted to the full capacity of the plant, the obligation to provide such reports will lapse. 	
	64 https://www.gov.uk/government/publications/the-ten-point-plan-for-a-green-industrial-revolution	
	⁶⁵ Energy Technologies Institute: Taking stock of UK CO ₂ storage (2017):	
	66 Energy Innovation Needs Assessment Sub-theme report: Carbon capture, utilisation and storage; https://www.gov.uk/government/publications/energy-innovation-needs-assessments	
	67 The Energy White Paper, published in December 2020, committed to consult on proposals to update the Carbon Capture Readiness requirements to reflect technological advances, such as conversion to low carbon hydrogen, and apply them more broadly, by removing the 300MW threshold and including all combustion technologies within scope. If that consultation leads to changes in the relevant legal or policy framework then those new requirements will apply and this NPS will be updated to reflect any revised requirements ahead of designation. In the meantime, CCR policy remains as set out in this section.	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	 ⁶⁸ Carbon Capture Readiness. A guidance note for Section 36 Applications: https://www.gov.uk/government/publications/carbon-capture-readiness-ccr-a-guide-on-consent-applications ⁶⁹ Carbon Capture Readiness. A guidance note for Section 36 Applications: https://www.gov.uk/government/publications/carbon-capture-readiness-ccr-a-guide-on-consent-applications 	
Grid connectionClimate Change Adaption (Part 4.9 of EN-1	4.89.1 Part 2 of this NPS covers the Government's government's energy and climate change strategy, including policies for mitigating climate change, and its impacts. This part of the NPS sets out how applicants and the IPCSecretary of State should take the effects of climate change into account when developing and consenting infrastructure. While climate change mitigation is essential to minimise the most dangerous impacts of climate change, previous global greenhouse gasGHG emissions have already committed us to some degree of continued climate change for at least the next 30 years. If new energy infrastructure is not sufficiently resilient against the possible impacts of climate change, it will not be able to satisfy the energy needs as outlined in Part 3 of this NPS. 4.89.2 Climate change is likely to mean that the UK will experience hotter, drier summers and warmer, wetter winters. There is a likelihood of increased flooding, drought, heatwaves, and intense rainfall events, as well as rising sea levels and coastal change. Adaptation is therefore necessary to deal with the potential impacts of these changes that are already happening. Renewable and low carbon development is an adaptive measure to address climate change. 4.89.3 To support planning decisions, the Governmentgovernment produces a set of UK Climate ProjectionsProjections70 and is developinghas developed a statutory National Adaptation Programme0Programme71. In addition, the Government's overnment's Adaptation Reporting Power91Power72 will ensure that reporting authorities (a defined list of public bodies and statutory undertakers, including energy utilities) assess the risks to their organisation presented by climate change. The IPCSecretary of State may take into account energy utilities' reports to the Secretary of State when considering adaptation measures proposed by an applicant for new energy infrastructure. 4.89.4 In certain circumstances, measures implemented to ensure a scheme can adapt to climate change may give rise to additional imp	The majority of the Climate Change Adaption text will remain unchanged and is assessed against the Proposed Scheme in Table B-1 above of Appendix B. Proposed paragraph 4.9.5 requires applicants to consider whether nature-based solutions could provide a basis for climate change adaption. As set out in Table B-1 above-of Appendix B, the SWDS has been designed to utilise surface water runoff in the existing water-cooling system. This will reduce the water abstracted from the River Ouse and uses a natural resource to mitigate climate change impacts, in line with EN-1. Section 4.11 of theis Planning Statement (APP-032) and Chapter 14 (Climate Resilience) of the ES (document reference 6.1.14APP-040) demonstrate that the Proposed Scheme has been assessed against a range of climate change scenarios and that it will have high level of climate resilience built-in from the outset, in line with proposed paragraph 4.9.8. Proposed paragraph 4.9.8 proposes text requiring applicants to demonstrate "how proposals can be adapted over their predicted lifetimes to remain resilient to a credible maximum climate change scenario". The Proposed Scheme is anticipated to operate for at least 25 years. At the end of the 25-year period, the facility may have some residual life remaining and an investment decision would be made as to whether the operational life of the Proposed Scheme would be extended. If it is not appropriate to continue operation, the Proposed Scheme has therefore been assessed against that period of time in accordance with the adopted EN-1. Through design principles in the REAC, the Applicant has taken account of the need to be climate resilient to that timescale. In addition, as stated in Appendix 12.1 (Flood Risk Assessment) of the ES (AS-088), should the design life be extended beyond the 25 year period, it has been agreed with the Environment Agency that Drax Power Ltd would manage the risk by ensuring the Operational Management Plan / Emergency Operational Management Plan for the site is implemented in a timel

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	energy infrastructure. The ES should 90 s.58 of the Climate Change Act 2008. 91 s.62 of the Climate Change Act 2008. set out how the proposal will take account of the projected impacts of climate change. While not required by, in accordance with the EIA Directive, this Regulations. This information will be needed by the IPC. Secretary of State. 4.8.69.7 The IPC Secretary of State should be satisfied that applicants for new energy infrastructure have taken into account the potential impacts of climate change using the latest UK Climate Projections and associated research and expert guidance (such as the EA's Climate Change Allowances for Flood Risk Assessments) available at the time the ES was prepared to ensure they have identified appropriate mitigation or adaptation measures. This should cover the estimated lifetime of the new infrastructure. Should a new set of UK Climate Projections or associated research become available after the preparation of the ES, the IPC Secretary of State should consider whether they need to request further information from the applicant.	
	4.9.8.7 Applicants should apply as a minimum, assess the emissions scenario that the Independent Committee impacts on Climate Change suggests the world is currently most closely following—and the 10%, 50% from their proposed energy project across a range of climate change scenarios, in line with appropriate expert advice and 90% estimate ranges guidance available at the time. Applicants should be able to demonstrate that proposals have a high level of climate resilience built-in from the outset. They should also be able to demonstrate how proposals can be adapted over their predicted lifetimes to remain resilient to a credible maximum climate change scenario. These results should be considered alongside relevant research which is based on the climate change projections.	
	4.8.89.9 The IPCSecretary of State should be satisfied that there are not features of the design of new energy infrastructure critical to its operation which may be seriously affected by more radical changes to the climate beyond that projected in the latest set of UK climate projections, taking account of the latest credible scientific evidence on, for example, sea level rise (for example by referring to additional maximum credible scenarios – i.e. from the Intergovernmental Panel on Climate Change or EA) and that necessary action can be taken to ensure the operation of the infrastructure over its estimated lifetime.	
	4.8.9.10 Where energy infrastructure has safety critical elements (for example parts of new fossil fuelgas-fired power stations or some electricity sub-stations), the applicant should apply the high emissions scenario (high impact, low likelihood) to those elements. Although the likelihood of this scenario is thought to be low, it is appropriate to take a more risk-averse approach with elements of infrastructure which are critical to the safety of its operation.	
	4.8.109.11 If any adaptation measures give rise to consequential impacts (for example on flooding, water resources or coastal change) the IPCSecretary of State should consider the impact of the latter in relation to the application as a whole and the impacts guidance set out in Part 5 of this NPS. 4.8.11	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	4.9.12 Any adaptation measures should be based on the latest set of UK Climate Projections, the Government's latest UK Climate Change Risk Assessment, when available92available ⁷³ and in consultation with the EA.EA's Climate Change Allowances for Flood Risk Assessments. ⁷⁴	
	4.8.129.13 Adaptation measures can be required to be implemented at the time of construction where necessary and appropriate to do so. However, where they are necessary to deal with the impact of climate change, and that measure would have an adverse effect on other aspects of the project and/or surrounding environment (for example coastal processes), the IPCSecretary of State may consider requiring the applicant to ensure that the adaptation measure could be implemented should the need arise, rather than at the outset of the 92 s.56 of the Climate Change Act 2008. development (for example increasing height of existing, or requiring new, sea walls).	
	4.8.139.14 The generic impacts advice in this NPS and the technology specific advice on impacts in the other NPSs provide additional information on climate change adaptation. In particular, this section should be read alongside the sections in Part 5 on coastal change (Section 5.6) and flood risk (Section 5.8).	
	 The UKCP18 key results can be found here: https://www.metoffice.gov.uk/research/approach/collaboration/ukcp/key-results s.58 of the Climate Change Act 2008. 	
	⁷² s.62 of the Climate Change Act 2008; https://www.gov.uk/government/publications/climate-change-secondnational-adaptation-programme-2018-to-2023	
Pollution control and other environmental regulatoryGrid Connection regimes (Part 4.10 of EN-1)	4.910.1 The connection of a proposed electricity generation plant to the electricity network is an important consideration for applicants wanting to construct or extend generation plant. In the market system and in the past, it ishas been for the applicant to ensure that there will be necessary infrastructure and capacity within an existing or planned transmission or distribution network to accommodate the electricity generated. To support the achievement of the transition to net zero, government is accelerating the co-ordination of the development of the grid network to facilitate the UK's net zero energy generation development and transmission. Applicants should consider coordinating their proposals for the onshore-offshore connection, as outlined at Section 3.3. 4.10.2 The applicant will liaise with National Grid who own and manage the transmission network in England and Wales or the relevant regional Distribution Network Operator (DNO)DNO or TSO to secure a grid connection. It may be the case that the applicant has not received or accepted a formal offer of a grid connection from the relevant network operator at the time of the application, although it is likely to have applied for one and discussed it with them. This is a commercial risk the applicant may wish to take for a variety of reasons, although the IPCSecretary of State will want to be satisfied that there is no obvious reason why a grid connection would not be possible.	Proposed policy changes emphasise the Government's aim to achieve net zero at proposed paragraph 4.10.1. A Grid Connection Statement (document reference 5.6APP-036) submitted with the Application confirms that the Proposed Scheme does not require connection to the National Transmission System ('NTS'), however upgrade works will be required to the existing National Grid Electricity Systems Operator ('NG ESO') 132 kV air insulated switchgear and possibly (and as such the DCO provides powers to do so) to the adjacent NG ESO 400 kV substation to enable an increase in import capacity to Drax Power Station. As the Proposed Scheme does not require grid connection, no further assessment is required than that provided at Section 4.12 of theis Planning Statementin Table 1 above, which related relates to the adopted EN-1 policy. The Applicant therefore considers the Proposed Scheme is acceptable in respect of Part 4.10 of draft EN-1.
	4.10.3 The Planning Act 2008 aims to create a holistic planning regime so that the cumulative effect of different elements of the same project can be considered together.	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	The Government government therefore envisages that wherever possible, applications for new generating stations and related infrastructure should be contained in a single application to the IPCSecretary of State or in separate applications submitted in tandem which have been prepared in an integrated way. However this This is particularly encouraged to ensure development of more co-ordinated transmission overall. However, for some new co-ordinated offshore transmission projects it is recognised that these will be brought forward for consenting separate to (though planned with) the applications for the wind farms ⁷⁵ as outlined in EN-5.	
	4.10.4 Co-ordinated applications typically bring economic efficiencies and reduced environmental impact. On some occasions it may not always be possible, nor the best course in terms of delivery of the project in a timely way, as different aspects may have different lead-in times and be undertaken by different legal entities subject to different commercial and regulatory frameworks (for example grid companies operate within OFGEM controls). So), so the level of information available on the different elements may vary. In some cases applicant(s), applicants may therefore decide to put in an application that seeks consent only for one element but contains some information on the second. Where this is the case, the applicant should explain the reasons for the separate application.	
	4.9.310.5 If this option is pursued, the applicant(s) accept accepts the implicit risks involved in doing so, and must ensure they provide sufficient information to comply with the EIA DirectiveRegulations including the indirect, secondary, and cumulative effects, which will encompass information on grid connections. The IPCSecretary of State must be satisfied that there are no obvious reasons why the necessary approvals for the other element are likely to be refused. The fact that the IPCSecretary of State has decided to grant consent for one project should not in any way fetter its the Secretary of State's subsequent decisions on any related projects.	
	 4.9.410.6 Further guidance on the considerations for the IPCSecretary of State is contained in EN-5. 73 s.56 of the Climate Change Act 2008. 74 https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances 	
Pollution Control and Environmental Regu Regimes Safety (Par of EN-1)	latory affect air quality, water quality, land quality and thelead to other direct or indirect	The proposed changes to EN-1 regarding 'pollution control and other environmental regulatory regimes' are generally not significant and therefore do not change the Applicants initial assessment (relating to the adopted EN-1 policy) set out in Table B-1 above of Appendix B. Regarding proposed paragraph 4.11.4, where relevant, chapters in the ES have undertaken their assessments using Best Available Techniques (BAT), for example, the air
	4.4011.2 The planning and pollution control systems are separate but complementary. The planning system controls the development and use of land in the public interest. It plays a key role in protecting and improving the natural environment, public health and safety, and amenity, for example by attaching conditions to allow developments which would otherwise not be environmentally acceptable to proceed, and preventing harmful	quality assessment presented at Chapter 6 (Air Quality) (document reference 6.1.6APP-042). The Applicant therefore considers the Proposed Scheme to meet the requirements of Part 4.11 of draft EN-1.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	development which cannot be made acceptable even through conditions. Pollution control is concerned with preventing pollution through the use of measures to prohibit or limit the releases of substances to the environment from different sources to the lowest practicable level. It also ensures that ambient air, water, and waterland quality meet standards that guard against impacts to the environment or human health.	
	4.10.34.11.3 Pollution from industrial sources in England and Wales is controlled through the Environmental Permitting (England and Wales) Regulations 2016 (EPR). The EPR requires industrial facilities to have an EP and meet limits on allowable emissions to operate.	
	4.11.4 Larger industrial facilities undertaking specific types of activity are also required to use Best Available Techniques (BAT) to reduce emissions to air, water, and land. Agreement on what sector specific BAT standards are, will now be determined through a new UK-specific BAT process.	
	4.11.5 In considering an application for development consent, the IPCSecretary of State should focus on whether the development itself an acceptable use of the land or sea is, and on the impacts of that use, rather than the control of processes, emissions or discharges themselvesthemselves ⁷⁶ . The IPCSecretary of State should work on the assumption that the relevant pollution control regime and other environmental regulatory regimes, including those on land drainage, water abstraction and biodiversity, will be properly applied and enforced by the relevant regulator. ItThe Secretary of State should act to complement but not seek to duplicate them.	
	4.10.411.6 Applicants should consult the Marine Management Organisation (MMO) on nationally significantenergy NSIP projects which would affect, or would be likely to affect, any relevant marine areas as defined in the Planning Act 2008 (as amended by s.section 23 of the Marine and Coastal Access Act 2009). Applicants are encouraged to consider the relevant marine plans in advance of consulting the MMO for England or the relevant policy teams at the Welsh government. The IPCSecretary of State's consent may include a deemed marine licence and the MMO will advise on what conditions should apply to the deemed marine licence. The IPCSecretary of State and MMO should cooperate closely to ensure that energy NSIPs are licensed in accordance with environmental legislation, including European directives.	
	4.10.511.7 Many projects covered by this NPS will be subject to the Environmental Permitting (EP) regime, which also incorporates operational waste management requirements for certain activities. When a developeran applicant applies for an Environmental PermitEP, the relevant regulator (usually EA or NRW but sometimes the local authority) requires that the application demonstrates that processes are in place to meet all relevant EP requirements. In considering the impacts of the project, the IPCSecretary of State may wish to consult the regulator on any management plans that would be included in an Environmental PermitEP application.	
	4.10.611.8 Applicants are advised to should make early contact with relevant regulators, including EA or NRW and the MMO, to discuss their requirements for environmental permits EPs and other consents. This Early contact with relevant	

Page 89 of 156

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	regulators will help-ensure that applications take -account of all relevant environmental considerations and that the relevant regulators are able to provide timely advice and assurance to the IPC.Secretary of State. Wherever possible, applicants are encouraged toshould submit applications for Environmental PermitsEPs and other necessary consents at the same time as applying to the IPCSecretary of State for development consent.	
	4.10.711.9 The IPCSecretary of State should be satisfied that development consent can be granted taking full account of environmental impacts. Working in close cooperation with EA or NRW and/or the pollution control authority, and other relevant bodies, such as the MMO, Natural England, the Countryside Council for Walesthe SNCB, Drainage Boards, and water and sewerage undertakers, the IPCSecretary of State should be satisfied, before consenting any potentially polluting developments, that:	
	 The relevant pollution control authority is satisfied that potential releases can be adequately regulated under the pollution control framework; and The effects of existing sources of pollution in and around the site are not such that the cumulative effects of pollution when the proposed development is added would make that development unacceptable, particularly in relation to statutory 	
	environmental quality limits. 4.11.10.8 The IPCSecretary of State should not refuse consent on the basis of pollution impacts unless it hasthere is good reason to believe that any relevant necessary operational pollution control permits, or licences or other consents will not subsequently be granted.	
	 The transition to more co-ordinated transmission is led by two temporal workstreams under the Offshore Transmission Network Review (OTNR). Co-ordinated transmission projects are being brought forward as pathfinders as part of the 'early opportunities' workstream. For other offshore wind projects, their connection to a transmission network will form part of the holistic network design under the 'pathway to 2030' workstream. See paragraph 183 of section 15 of the NPPF 	
Hazardous SubstancesSafety (Part 4.12 of EN-1)	4.4112.1 The Health and Safety Executive (HSE) is responsible for enforcing a range of occupational health and safety legislation some of which is relevant to the construction, operation and decommissioning of energy infrastructure. Applicants should consult with the Health and Safety Executive (HSE) on matters relating to safety.	The changes proposed to EN-1 policy on 'safety' are minor and therefore the Applicant's assessment of the adopted policy presented at Section 4.14 of theis Planning Statement (APP-032)in Table 1 above remains relevant.
	4.112.2 Some technologies, for example the use of salt caverns for underground gas storage, will be regulated by specific health and safety legislation. The application of these regulations is set out in the technology- specific NPSs where relevant.	
	4.112.3 Some energy infrastructure will be subject to the Control of Major Accident Hazards (COMAH) Regulations 19992015. These Regulations aim to prevent major accidents involving dangerous substances and limit the consequences to people and the environment of any that do occur. COMAH regulations apply throughout the life cycle of the facility, i.e. from the design and build stage through to decommissioning.	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	They are enforced by the Competent Authority comprising HSE and the EA acting jointly in England and Wales (and by the HSE and NRW acting jointly in Wales, and the HSE and Scottish Environment Protection Agency (SEPA) acting jointly in Scotland). The same principles apply here as for those set out in the previous section on pollution control and other environmental permitting regimes. 4.4112.4 Applicants seeking to develop infrastructure subject to the COMAH regulations should make early contact with the Competent Authority. If a safety report is required it is important to discuss with the Competent Authority the type of information that should be provided at the design and development stage, and what form this should take. This will enable the Competent Authority to review as much information as possible before construction begins, in order to assess whether the inherent features of the design are sufficient to prevent, control and mitigate major accidents. The IPCSecretary of State should be satisfied that an assessment has been done where required and that the Competent Authority has assessed that it meets the safety objectives described above.	
Health-Hazardous Substances (Part 4.13 of EN-1)	4.4213.1 All establishments wishing to hold stocks of certain hazardous substances above a threshold need Hazardous Substances consent. Applicants shouldmust consult the Hazardous Substances Authority and the HSE at pre-application stage93stage ⁷⁷ if the project is likely to need hazardous substances consent. Where hazardous substances consent is applied for, the IPCSecretary of State will consider whether to make an order directing those hazardous substances consent shall be deemed to be granted alongside making an order granting development consent94.consent. ⁷⁸ The IPCSecretary of State should consult HSE about this.	The changes proposed to EN-1 policy on 'hazardous substances' are minor and therefore the Applicant's assessment of the adopted policy presented in Table 1 at Section 4.15 of theis Planning Statement (APP-032) remainabove remains relevant.
	4.1213.2 HSE will assess the risks based on the development consent application. Where HSE does not advise against the IPCSecretary of State granting the consent, it will also recommend whether the consent should be granted subject to any requirements.	
	4.4213.3 HSE sets a consultation distance around every site with hazardous substances consent and notifies the relevant local planning authorities. The applicant should therefore consult the local planning authority at preapplication stage to identify whether its proposed site is within the consultation distance of any site with hazardous substances consent and, if so, should consult the HSE for its advice on locating the particular development on that site.	
	⁷⁷ Further information is available at the HSE's website: HSE: Land use planning - Hazardous substances consent ⁷⁸ Hazardous substances consent can also be applied for subsequent to a DCO application. However, the guidance in 4.13.1 still applies i.e., the applicant should consult with HSE at the pre-application stage and include details in their DCO	
Common Law Nuisance and Statutory Nuisance (Part 4.14 of EN-1)	4.14.1 Section 158 of the Planning Act 2008 confers statutory authority for carrying out development consented to by, or doing anything else authorised by, a development consent order. Such authority is conferred only for the purpose of providing a defence in any civil or criminal proceedings for nuisance. This would include a defence for	The changes proposed to EN-1 policy on 'Common Law Nuisance and Statutory Nuisance' are minor and therefore the Applicant's assessment of the adopted policy presented at Section 4.17 of theis Planning Statement (APP-032) remains relevant.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	proceedings for nuisance under Part III of the Environmental Protection Act 1990 (EPA) (statutory nuisance) but only to the extent that the nuisance is the inevitable consequence of what has been authorised. The defence does not extinguish the local authority's duties under Part III of the EPA 1990 to inspect its area and take reasonable steps to investigate complaints of statutory nuisance and to serve an abatement notice where satisfied of its existence, likely occurrence or recurrence. The defence is not intended to extend to proceedings where the matter is "prejudicial to health" and not a nuisance.	
	4.14.2 It is very important that, atAt the application stage of an energy NSIP, possible sources of nuisance under section 79(1) of the 1990 Act and how they may be mitigated or limited areshould be considered by the IPCSecretary of State so that appropriate requirements can be included in any subsequent order granting development consent. (See (see Section 5.67 on Dust, odour, artificial light etc. and Section 5.4112 on Noise and vibration.)). 4.14.3 The IPCSecretary of State should note that the defence of statutory authority is subject to any contrary provision made by the IPCSecretary of State in any particular case in a development consent order (section 158(3)). Therefore, subject to Section 5.67, the IPCSecretary of State can disapply the defence of statutory authority, in whole or in part, in any particular case, but in so doing should have regard to whether any particular nuisance is an inevitable consequence of the development.	
Security Considerations (Part 4.15 of EN-1)	4.15.1 National security considerations apply across all national infrastructure sectors. Overall responsibility for security of the energy sector lies with DECC. ItBEIS works closely with Government security agencies including the Centre for the Protection of National Infrastructure (CPNI) to reduce and the vulnerability of National Cyber Security Centre (NCSC) to provide advice to the most 'critical' critical infrastructure assets in the sector toon terrorism and other national security threats. The Office for Civil Nuclear Security (OCNS) is the security regulator for, as well as on risk mitigation. In the UK's civil nuclear industry, security is also independently regulated by the Office for Nuclear Regulation (ONR).	The changes proposed to Part 4.15 of EN-1 are not relevant to the DCO Application. Therefore, the assessment of the adopted EN-1 text in Section 4.18 of theis Planning Statement (APP-032) Table 1 above remains relevant for the emerging policy with regard to 'security considerations'.
	4.15.2 Government policy is to ensure that, where possible, proportionate protective security measures are designed into new infrastructure projects at an early stage in the project development. Where applications for development consent for infrastructure covered by this NPS relate to potentially 'critical' infrastructure, there may be national security considerations.	
	4.15.3 DECCBEIS will be notified at pre-application stage about every likely future application for energy NSIPs, so that any national security implications can be identified. Where national security implications have been identified, the applicant should consult with relevant security experts from CPNI, OCNSONR (for civil nuclear) and DECC/or BEIS to ensure that physical, procedural and personnel security measures have been adequately considered in the design process and that adequate consideration has been given to the management of security risks. If CPNI, OCNSONR (for civil nuclear) and/or DECCBEIS are satisfied that security issues have been	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	adequately addressed in the project when the application is submitted to the IPCSecretary of State, it will provide confirmation of this to the IPCSecretary of State. The IPCSecretary of State should not need to give any further consideration to the details of the security measures in its examination.	
	4.15.4 The applicant should only include sufficient information in the application as is necessary to enable the IPCSecretary of State to examine the development consent issues and make a properly informed decision on the application.	
	4.15.5 In exceptional cases, where examination of an application would involve public disclosure of information about defence or national security which would not be in the national interest, the Secretary of State can intervene and examine a part or the whole of the application. In that case, the Secretary of State may appoint an examiner to consider evidence in closed session, and the Secretary of State would be the decision maker for the application.may direct that examination of that evidence take place in closed session.	
Air Quality and Emissions (Part 5.2 of EN-1)	Infrastructure development can have adverse effects on air quality. The construction, operation and decommissioning phases can involve emissions to air which could lead to adverse impacts on health, on protected species and habitats, or on the wider countryside and species. Impacts on protected species and habitats are covered in Section 5.34. Air emissions include particulate matter (for example dust) up to a diameter of ten microns (PM10) as well as gases such as sulphur dioxide, carbon monoxide and nitrogen oxides (NOx). Levels for pollutants in ambient air are set out in the Air Quality Standards Regulations 2010 and reiterated in the Air Quality Strategy which in turn embodies EU legal requirements80 The Secretary of State for the Environment, Food and Rural Affairs is required to make available up to date information on air quality to any relevant interested party955.2.2 CO ₂ emissions are a significant adverse impact from some types of energy infrastructure which cannot be totally avoided (even with full deployment of CCS technology). However, given the characteristics of these and other technologies, as noted in Part 3 of this NPS, and the range of non planning policies aimed at decarbonising electricity generation such as EU ETS (see Section 2.2 above), Government has determined that CO ₂ emissions are not reasons to prohibit the consenting of projects which use these technologies or to impose more restrictions on them in the planning policy framework than are set out in the energy NPSs (e.g. the CCR and, for coal, CCS requirements). Any ES on air emissions will include an assessment of CO ₂ emissions, but the policies set out in Section 2, including the EU ETS, apply to these emissions. The IPC does not, therefore need to assess individual applications in terms of carbon emissions against carbon budgets and this section does not address CO ₂ emissions or any Emissions Performance Standard that may apply to plant. 5.2.3party. ⁸¹	The changes proposed to Part 4.15 of EN-1 are not relevant to the DCO Application. Therefore, the assessment of the adopted EN-1 text in Table B-1 above of Appendix B remains relevant for the emerging policy with regard to 'air quality and emissions'. To clarify, the project is not located within, or in close proximity to, a Local Air Quality Management Area or Clean Air Zone, and therefore proposed paragraph 5.2.9 is not relevant.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	The main emissions from energy infrastructure are from generating stations. Eutrophication can affect plant growth and functioning, altering the competitive balance of species and thereby damaging biodiversity. In aquatic ecosystems it can cause changes to algal composition and lead to algal blooms, which remove oxygen from the water, adversely affecting plants and fish. The effects on ecosystems can be shorttermshort term or irreversible and can have a large impact on ecosystem services such as pollination, aesthetic services and water supply.	
	5.2.3 Emissions from combustion plants are generally released through exhaust stacks. Design of exhaust stacks, particularly height, is the primary driver for the delivery of optimal dispersion of emissions and is often determined by statutory requirements. The optimal stack height is dependent upon the local terrain and meteorological conditions, in combination with the emission characteristics of the plant. The EA or NRW will require the exhaust stack height of a thermal combustion generating plant, including fossil fuel generating stations and waste or biomass plant, to be optimised in relation to impact on air quality. The IPCSecretary of State need not, therefore, be concerned with the exhaust stack height optimisation process in relation to air emissions, though the impact of stack heights on landscape and visual amenity will be a consideration (see Section 5.9). 5.2.510).	
	5.2.4 Impacts of thermal combustion generating stations with respect to air emissions are set out in the technology- specific NPSs.	
	Applicant's assessment	
	5.2.65 Where the project is likely to have adverse effects on air quality the applicant should undertake an assessment of the impacts of the proposed project as part of the Environmental Statement (ES)	
	5.2.76 The ES should describe:	
	 Any significant air emissions, their mitigation and any residual effects distinguishing between the project stages and taking account of any significant emissions from any road traffic generated by the project; 	
	 The predicted absolute emission levels of the proposed project, after mitigation methods have been applied; 	
	 Existing air quality levels and the relative change in air quality from existing levels; and 	
	~ •Any potential eutrophication impacts-	
	#PG Secretary of State decision making	
	5.2.87 Many activities involving air emissions are subject to pollution control. The considerations set out in Section 4.4011 on the interface between planning and pollution control therefore apply.	
	5.2.98 The IPCSecretary of State should generally give air quality considerations substantial weight where a project would lead to a deterioration in air quality in an area, or leads to a new area where air quality breaches any national air quality limits.	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	However, air quality considerations will also be important where substantial changes in air quality levels are expected, even if this does not lead to any breaches of national air quality limits.	
	5.2.409 In all cases, the IPCSecretary of State must take account of any relevant statutory air quality limits. Where a project is likely to lead to a breach of such limits the developersapplicant should work with the relevant authorities to secure appropriate mitigation measures to allow the proposal to proceed. In particular, where a project is located within, or in close proximity to, a Local Air Quality Management Area or Clean Air Zone, applicants should engage with the relevant local authority to ensure the project is compatible with the local air quality plan. In the event that a project will lead to non-compliance with a statutory limit the IPCSecretary of State should refuse consent.	
	Mitigation	
	5.2.1110 The IPC Secretary of State should consider whether mitigation measures are needed both for operational and construction emissions over and above any which may form part of the project application. A construction management plan may help codify mitigation at this stage.	
	5.2.1211 In doing so the IPC may referSecretary of State should have regard to the conditions and advice in the Air Quality Strategy96Strategy82 or any successor to it and should consider relevant advice within Local Air Quality Management guidance.83	
	5.2.4312 The mitigations identified in Section 5.4314 on traffic and transport impacts will help mitigate the effects of air emissions from transport.	
	80 https://www.gov.uk/government/publications/the-air-quality-strategy-for-england-scotland-wales-and-northernireland-volume-1	
	95-81 Air Quality Standards Regulations 2010, No.2010/1001.	
	82 https://www.gov.uk/government/publications/the-air-quality-strategy-for-england-scotland-wales-and-northernireland-volume-1 83 https://laqm.defra.gov.uk/supporting-guidance.html	
5.3 Greenhouse Gas Emissions 5.4 Biodiversity	<i>Introduction</i>5.3.1 Significant levels of energy infrastructure development are vital to ensure the	Part 5.3 of draft EN-1 is a new chapter proposed to highlight the importance, and Government aim, to decarbonise the UK economy.
and Geological Conservation	decarbonisation of the UK economy. The construction, operation and decommissioning of that energy infrastructure will in itself, lead to GHG emissions.	The Proposed Scheme has been designed to remove approximately 95% of CO ₂ -carbon dioxide emissions from the flue gas emitted from two of the four generating units at the
	5.3.2 In considering this section, applicants should also have regard to Part 2 of this NPS, which explains the current policy on climate change and how this NPS interacts with that policy, and Section 4.9 of this NPS, which deals with climate change	Drax Power Station. The Proposed Scheme will result in the power station achieving negative carbon emissions in terms of the process of generating electricity from biomass, once the carbon capture plant is operational.
	adaptation. 5.3.3 As discussed in Part 2, energy infrastructure plays a vital role in decarbonisation.	It is considered by the Application that the overall goal of Part 5.3 of draft EN-1 is met as a result of the beneficial impact on GHGs as a result of the Proposed Scheme.
	While all steps should be taken to reduce and mitigate climate change impacts, it is accepted that there will be residual emissions from energy infrastructure, particularly during the economy wide transition to net zero, and potentially beyond.	Chapter 15 (Greenhouse Gases) of the ES (document reference 6.1.15APP-051) reports the assessment undertaken of the net impact of the Proposed Scheme's GHG emissions (or avoided emissions) over the lifetime of the Proposed Scheme (25 years); meeting the

Emerging Policy Text Detailing Changes

Policy

Applicant's assessment

5.3.4 All proposals for energy infrastructure projects should include a carbon assessment as part of their ES (See Section 4.2). This should include:

- A whole life carbon assessment showing construction, operational and decommissioning carbon impacts
- An explanation of the steps that have been taken to drive down the climate change impacts at each of those stages
- Measurement of embodied carbon impact from the construction stage
- How reduction in energy demand and consumption during operation has been prioritised in comparison with other measures
- How operational emissions have been reduced as much as possible through the application of best available technology for that type of technology
- Calculation of operational energy consumption and associated carbon emissions
- Whether and how any residual carbon emissions will be (voluntarily) offset or removed using a recognised framework
- Where there are residual emissions, the level of emissions and the impact of those on national and international efforts to limit climate change, both alone and where relevant in combination with other developments at a regional or national level, or sector level, if sectoral targets are developed

Secretary of State decision making

5.3.5 The Secretary of State must be satisfied that the applicant has as far as possible assessed the GHG emissions of all stages of the development.

5.3.6 The Secretary of State should be content that the applicant has taken all reasonable steps to reduce the GHG emissions of the construction and decommissioning stage of the development. The Secretary of State should also give positive weight to projects that embed nature-based or technological processes to mitigate or offset the emissions of construction and decommissioning within the proposed development. However, in light of the vital role energy infrastructure plays in the process of economy wide decarbonisation, the Secretary of State accepts that there are likely to be some residual emissions from construction and decommissioning of energy infrastructure.

5.3.7 Operational GHG emissions are a significant adverse impact from some types of energy infrastructure which cannot be totally avoided (even with full deployment of CCS technology). Given the characteristics of these and other technologies, as noted in Part 3 of this NPS, and the range of non-planning policies aimed at decarbonising electricity generation such as UK ETS (see Sections 2.4 and 2.5 above), government has determined that operational GHG emissions are not reasons to prohibit the consenting of energy projects including those which use these technologies or to impose more restrictions on them in the planning policy framework than are set out in the energy NPSs (e.g. the CCR requirements). Any carbon assessment will include an

Assessment of Changes of Relevance

requirements of proposed paragraph 5.3.4 (excluding those which do not apply) which include:

- A whole life carbon assessment showing construction, operational and decommissioning carbon impacts Chapter 15 (Greenhouse Gases) of the ES (document reference 6.1.15AP-051) conducts a whole life carbon assessment save that decommissioning impacts are not considered due to the Proposed Scheme's 25 year design life and uncertainties around deconstruction techniques at the Proposed Scheme's end of life).
- An explanation of the steps that have been taken to drive down the climate change impacts at each of those stages the CEMP will include measures to seek to ensure a caron reduction in the construction stage. This will focus upon the use of efficient construction processes such as design for manufacture and assembly aligning with the carbon hierarchy outlined in PAS 2080. This will include re-using site arisings; using low carbon solutions (technologies, materials and products) to minimise resource consumption; and using construction techniques that reduce resource consumption. In terms of the detailed design, this will reflect the carbon hierarchy and include feasible measures to reduce embodied carbon as part of the design, as outlined in PAS 2080, where reasonably practicable. This will include potential for re-using or refurbishing existing assets; and use of low carbon solutions (technologies, materials and products) to minimise resource consumption. 'These measures are secured pursuant to a Requirement in the DCO.
- Measurement of embodied carbon impact from the construction stage embodied carbon from the construction phase is assessed (i.e., the materials required, production and transport of those materials etc).
- How reduction in energy demand and consumption during operation has been prioritised in comparison with other measures the operational impacts of the Proposed Scheme are carbon sequestration, as such this requirement is not applicable to the DCO Application.
- How operational emissions have been reduced as much as possible through the application of best available technology for that type of technology the operational mitigation measures proposed will ensure that the principle of the Proposed Scheme and associated technology seeks to reduce operational emissions at the existing power station, through the use of the best available technology. Controls through the permitting process will ensure that emissions are reduced, with appropriate mitigation for potential air quality and ecology impacts. The Design Framework (APP-195) allows for flexibility to the detailed design in order to allow for potential technological developments to ensure that the best available technology can be used.
- <u>Calculation of operational energy consumption and associated carbon</u>
 <u>emissions</u> this requirement forms part of the assessment and lifecycle assessment presented in Chapter 15 of the ES.

National Policy Statement Compliance Tracker

	Policy
	5.4 Biodiversity
	Geological Conservation5.
	Greenhouse Ga Emissions
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Emerging Policy Text Detailing Changes

assessment of operational GHG emissions, but the policies set out in Part 2, including the UK ETS, apply to these emissions. Operational emissions will be addressed in a managed, economy-wide manner, to ensure consistency with carbon budgets, net zero and our international climate commitments. The Secretary of State does not, therefore need to assess individual applications for planning consent against operational carbon emissions and their contribution to carbon budgets, net zero and our international climate commitments.

Mitigation

- 5.3.8 A carbon assessment should be used to drive down GHG emissions at every stage of the proposed development and ensure that emissions are minimised as far as possible for the type of technology, taking into account the overall objectives of ensuring our supply of energy always remains secure, reliable and affordable, as we transition to net zero.
- 5.3.9 Applicants should look for opportunities within the proposed development to embed nature-based or technological solutions to mitigate or offset the emissions of construction and decommissioning.
- 5.3.10 To be taken into account in Secretary of State decision making, steps taken to minimise and offset emissions should be set out in a GHG Reduction Strategy, secured under the development consent order.

Introduction

5.34.1 Biodiversity is the variety of life in all its forms and encompasses all species of plants and animals, the genetic diversity they contain and the complex ecosystems of which they are a part. Geological conservation relates to the sites that are designated for their geology and/or their geomorphological importance. 5.34.2 The wide range of legislative provisions at the international and national level that can impact on planning decisions affecting biodiversity and geological conservation issues are set out in a Government Circular97. A separate guide Circular.84 The MHCLG Natural Environment PPG document sets out good practice in England in relation to planning for biodiversity and geological conservation98.conservation.85

Applicant's assessment

- 5.34.3 Where the development is subject to EIA the applicant should ensure that the ES clearly sets out any effects on internationally, nationally, and locally designated sites of ecological or geological conservation importance, on protected species and on habitats and other species identified as being of principal importance for the conservation of biodiversity. The applicant should provide environmental information proportionate to the infrastructure where EIA is not required to help the IPCSecretary of State consider thoroughly the potential effects of a proposed project.
- 5.34.4 The applicant should show how the project has taken advantage of opportunities to conserve and enhance biodiversity and geological conservation interests. IPC decision making 5.3.5 The Government's biodiversity strategy is set out in 'Working'

Assessment of Changes of Relevance

- Whether and how any residual carbon emissions will be (voluntarily) offset or removed using a recognised framework there are emissions during the construction phase albeit these are minimal and cannot be offset. However, this needs to be seen in the context of the overall emissions of the Proposed Scheme which are negative across the project lifetime. As such, the operation of the Proposed Scheme will result in no residual effects.
- Where there are residual emissions, the level of emissions and the impact of those on national and international efforts to limit climate change, both alone and where relevant in combination with other developments at a regional or national level, or sector level, if sectoral targets are developed the Proposed Scheme will result in negative emissions, as such, it will directly assist in meeting national and international efforts to limit climate change and assist in meeting the UK's net zero by 2050 target.

In summary, the ES has sufficiently assessed GHG emission at each of stage of development, where possible, and has taken all steps to reduce carbon emissions where possible. The Applicant therefore considers that the content of the DCO Application complies with Part 5.3 of draft EN-1.

By nature of the Proposed Scheme being 'carbon capture' infrastructure, the Proposed Scheme will have significant beneficial effects in terms of GHG reduction, resulting in negative carbon emissions.

Part 5.4 of draft EN-1 encourages applicants to consider BNG and wider environmental gains. It also highlights the aims and goals of the Government's '25 Year Environment Plan' as a consideration of the SoS when decision making.

Proposed paragraph 5.4.6 states the SoS will give significant weight to any residual harm to biodiversity which cannot be avoided, mitigated, or compensated.

Proposed paragraph 5.4.12 adds text regarding Local Wildlife Sites ('LWS') which are identified as being areas of substantive nature conservation value and make an important contribution to ecological networks and nature's recovery. There are two LWS within 2 km of the site, Barmby-on-the-Marsh and Barmby Pond. Without mitigation, nitrogen and acid deposition could also lead to an effect on such non-statutory designated sites, potentially contributing to increased nutrient nitrogen levels and acidification of habitats which could result in changes to the structure, composition and function of the habitats. Mitigation measures have therefore been identified to reduce the impact of operational emissions to air. These mitigation measures primarily bring benefits in reducing acidification effects, but also have minor beneficial effects in terms of the With Proposed Scheme scenario contribution to nitrogen deposition and NH3 concentrations. Following implementation of the mitigation measures, effects on LWS are predicted to be neutral and not significant during operation.

Proposed text at 5.4.4 puts greater emphasis on the consideration of BNG and opportunities for ecological and environmental enhancement, and specific mitigation which an Applicant should demonstrate are set out at proposed paragraph 5.4.18.

Emerging Policy Text Detailing Changes

Policy

with the grain of nature'99. Its aim is to ensure: • a halting, and if possible a reversal, of declines in priority habitats and species, with wild species and habitats as part of healthy, functioning ecosystems; and • the general acceptance of biodiversity's essential role in enhancing the quality of life, with its conservation becoming a natural consideration in all relevant public, private and non-governmental decisions and policies. 5.3.6 In having regard to the aim of the Government's biodiversity strategy the IPC should take account of the context of the challenge of climate change: failure to address this challenge will result in significant adverse impacts to biodiversity. The policy set out in the following sections recognises the need 97As set out in Section 4.6, the design process should embed opportunities for nature inclusive design. The applicant is encouraged to consider how their proposal can contribute towards Biodiversity Net Gain in line with the ambition set out in the 25 Year Environment Plan. Energy infrastructure projects have the potential to deliver significant benefits and enhancements beyond Biodiversity Net Gain, which result in wider environmental gains. The scope of potential gains will be dependent on the type, scale, and location of each project.

Secretary of State decision making

5.4.5 The government's 25 Year Environment Plan marked a step change in ambition for wildlife and the natural environment. The Secretary of State should have regard to the aims and goals of the government's 25 Year Environment Plan and any relevant measures and targets In doing so, the Secretary of State should also take account of the context of the challenge of climate change: failure to address this challenge will result in significant adverse impacts to biodiversity. The policy set out in the following sections recognises the need to protect and enhance biodiversity and geological conservation interests. The benefits of nationally significant low carbon energy infrastructure development may include benefits for biodiversity and geological conservation interests and these benefits may outweigh harm to these interests. The IPCSecretary of State may take account of any such net benefit in cases where it can be demonstrated.

5.3.74.6 As a general principle, and subject to the specific policies below, development should at the very least aim to avoid significant harm to biodiversity and geological conservation interests, including through mitigation and consideration of reasonable alternatives (as set out in Section 4.42 above); where significant harm cannot be avoided, then appropriate compensation measures should be sought. If significant harm to biodiversity resulting from a development cannot be avoided (through locating on an alternative site with less harmful impacts), adequately mitigated, or, as a last resort, compensated for, then the Secretary of State will give significant weight to any residual harm.

5.3.84.7 In taking decisions, the IPCSecretary of State should ensure that appropriate weight is attached to designated sites of international, national, and local importance; protected species; habitats and other species of principal importance for the

Assessment of Changes of Relevance

The mitigation measures for the construction phase of the Proposed Scheme are set out in the REAC (AS-092) and the majority are secured through a CEMP via a requirement to the DCO (AS-076).

The mitigation proposed meets all requirements of proposed paragraph 5.4.18 to mitigate impact on ecological and biodiversity receptors, such as any clearance works taking place outside of the main bird breeding season where practical and restoring habitats following construction. The Proposed Scheme also seeks to avoid any unnecessary impacts upon ecological and biodiversity receptors, with the Order Limits being reduced during the pre-application workstage to minimise the potential impacts. Existing habitats will also be enhanced, as set out in detail in the OLBS (document reference 6.6AS-094). This document provides the outline measures which will be secured in a final Biodiversity and Landscape Strategy which is secured through a requirement to the DCO. In addition, new habitats are proposed, such as pond creation, which will be delivered in the Off-site Habitat Provision Area.

As required by proposed paragraph 5.4.18, habitats will, where practicable, be restored after construction works have finished, and this is a principle adopted in the OLBS (document reference 6.6AS-094).

Proposed paragraph 5.4.19 encourages applicants to implement a Biodiversity Management Strategy. The OLBS (document reference 6.6AS-094) submitted with the DCO application meets this requirement and also the requirement for mitigation or BNG to be delivered, and maintained for 30 years, as per proposed paragraph 5.4.22. The Outline Strategy contains the inclusion of 'Toolbox Talks' for the construction phase. This meets the suggested requirement of awareness training for employees set out in proposed paragraph 5.4.19. Toolbox Talks are not proposed during operation as there will be no requirement for employees of the Drax Power Station to enter the either of the Habitat Provision Areas proposed. Therefore, there is no need to educate employees in respect of biodiversity protection.

In compliance with proposed paragraph 5.4.20, the existing cooling system at the Drax Power Station will be modified, upgraded and extended. Therefore, the existing location will be retained. The ES confirms that there will be no significant adverse effects on water in terms of ecology nor contamination which cannot be suitably mitigated. The Applicant therefore considers the Proposed Scheme to be in accordance with proposed paragraph 5.4.20.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	conservation of biodiversity; and to biodiversity and geological interests within the wider environment.	
	International HRA Sites	
	5.3.9 The most important 4.8 Important sites for biodiversity are those identified through international conventions and European Directives. The Habitats Regulations provide statutory. The Habitats Regulations set out sites for which an HRA will assess the implications of a plan or project, including Special Areas of Conservation and Special Protection Areas. As a matter of policy, the following should be given the same protection for these sites but do not provide statutory protection for as sites covered by the Habitat's Regulations:	
	(a) potential Special Protection Areas (pSPAs) before they have been classified as a Special Protection Area. For the purposes of considering development proposals affecting them, as a matter of policy the Government wishes pSPAs to be considered in the same way as if they had already been classified. Listed and possible Special Areas of Conservation;	
	(b) listed or proposed Ramsar sites should, also as a matter of policy, receive the same protection 100.; and	
	(c) sites identified, or required, as compensatory measures for adverse effects on other HRA sites.	
	Sites of Special Scientific Interest (SSSIs)	
	5.3.104.9 Many SSSIs are also designated as sites of international importance and will be protected accordingly. Those that are not, or those features of SSSIs not covered by an international designation, should be given a high degree of protection. AllMost National Nature Reserves are notified as SSSIs. 5.3.11 Where a proposed development	
	5.4.10 Development on land within or outside ana SSSI, and which is likely to have an adverse effect on an SSSIit (either individually or in combination with other developments), development consent should not normally be granted. Where an adverse effect, after mitigation, on the site's notified special interest features is likely, an permitted. The only exception should only be madeis where the benefits (including need) of the development at this site101, in the location proposed clearly outweigh both the impacts that it isits likely to haveimpact on the features of the site that make it of special scientific interest, and any broader impacts on the national network of SSSIs. The IPCSecretary of State should use requirements and/or planning 100 See http://www.jncc.gov.uk/page-161 101 'At this site' applies the language in PPS9: Biodiversity and Geological Conservation. The benefits of the development 'at this site' should be interpreted as including any benefits which are not dependent on a particular location. obligations to mitigate the harmful harmful aspects of the development	
	and, where possible, to ensure the conservation and enhancement of the site's biodiversity or geological interest.	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	Marine Conservation Zones	
	5.3.124.11 Marine Conservation Zones (MCZs) (Marine Protected Areas in Scotland), introduced under the Marine and Coastal Access Act 2009, are areas that have been designated for the purpose of conserving marine flora or fauna, marine habitats or types of marine habitat or features of geological or geomorphological interest. The protected feature or features and the conservation objectives for the MCZ are stated in the designation order for the MCZ, which provides statutory protection for these areas implemented by the MMO (see paragraph 1.2.2). As a public authority, the IPC. The Secretary of State is bound by the duties in relation to MCZs imposed by sections 125 and 126 of the Marine and Coastal Access Act 2009.	
	Regional and Local Sites	
	5.3.134.12 Sites of regional and local biodiversity and geological interest, which include Regionally Important Geological Sites, Local Nature Reserves and Local Sites, have a fundamental role to play in meeting overall national biodiversity targets; contributing to the quality of life and the well-being of the community; and in supporting research and education. The IPC Wildlife Sites, are areas of substantive nature conservation value and make an important contribution to ecological networks and nature's recovery. They can also provide wider benefits including public access (where agreed), climate mitigation and helping to tackle air pollution. National planning policy expects plans to identify and map Local Wildlife sites, and to include policies that not only secure their protection from harm or loss but also help to enhance them and their connection to wider ecological networks. The Secretary of State should give due consideration to such regional or local designations. However, given the need for new nationally significant infrastructure, these designations should not be used in themselves to refuse development consent. Development will still be expected to comply with the biodiversity and geological conservation requirements set out in this NPS.	
	Ancient Woodland and Veteran Trees	
	5.3.144.13 Ancient woodland is a valuable biodiversity resource both for its diversity of species and for its longevity as woodland. Once lost it cannot be recreated. The IPCSecretary of State should not grant development consent for any development that would result in its loss or deterioration unless the benefits (including need) of the development, in that location103location clearly outweigh the loss of the woodland habitat. Aged or 'veteran' trees found outside ancient woodland are also particularly valuable for biodiversity and their loss should be avoided104avoided87. Where such trees would be affected by development proposals the applicant should set out proposals for their conservation or, where their loss is unavoidable, the reasons why. Biodiversity within Developments 5.3.15Applicants should provide a suitable compensation strategy in instances where proposals would result in the loss or deterioration of ancient woodland and ancient or veteran trees.	
	Biodiversity within Developments	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	5.4.14 Development proposals provide many opportunities for building-in beneficial biodiversity or geological features as part of good design. When considering proposals, the IPCSecretary of State should maximise such opportunities in and around developments, using requirements or planning obligations where appropriate. This can help towards delivering biodiversity net gain. Wider ecosystem services and benefits of natural capital should also be considered when designing enhancement measures.	
	Protection and Enhancement of Habitats and Other Species	
	5.3.164.15 Many individual wildlife species receive statutory protection under a range of legislative provisions. ¹⁰⁵ -provisions. ⁸⁸	
	5.3.474.16 Other species and habitats have been identified as being of principal importance for the conservation of biodiversity in England and Wales and thereby requiring conservation action106.action.89 The IPCSecretary of State should ensure that these species and habitats are protected from the adverse effects of development by using requirements or, planning obligations., or licence conditions. The IPCSecretary of State should refuse consent where harm to the habitats or species and their habitats would result, unless the benefits (including need) of the development outweigh that harm. In this context the IPC should give substantial weight to any such harm to the detriment of biodiversity features of national or regional importance which it considers may result from a proposed development. Mitigation 5.3.18 The applicant should include appropriate mitigation measures as an integral part of the proposed development. In particular, the applicant should demonstrate that: • during construction, they will seek to ensure that activities will be confined to the minimum areas required for the works; • during construction and operation best practice will be followed to ensure that risk of disturbance or damage to species or habitats is minimised, including as a consequence of transport access arrangements; • habitats will, where practicable, be restored after construction works have finished; and • opportunities will be taken to enhance existing habitats and, where practicable, to create new habitats of value within the site landscaping proposals. 105Secretary of State should give substantial weight to any such harm to the detriment of biodiversity features of national or regional importance which it considers may result from a proposed development. 5.4.17 Proposals should also consider any opportunities to maximise the restoration, creation, and enhancement of wider biodiversity. Consideration should be given to improvements to, and impacts on, habitats and species in, around and beyond developments, for wider ec	
	Mitigation	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	5.4.18 The applicant should include appropriate mitigation measures as an integral part of the proposed development. In particular, the applicant should demonstrate that:	
	 During construction, they will seek to ensure that activities will be confined to the minimum areas required for the works 	
	 The timing of construction has been planned to avoid or limit disturbance to birds during the breeding season⁹⁰ 	
	 During construction and operation best practice will be followed to ensure that risk of disturbance or damage to species or habitats is minimised, including as a consequence of transport access arrangements 	
	~ Habitats will, where practicable, be restored after construction works have finished	
	Mitigation measures should take into account existing habitats and should generally seek opportunities to enhance them, rather than replace them. Where practicable, mitigation measures should seek to create new habitats of value within the site landscaping proposals	
	5.4.19 Applicants should consider producing and implementing a Biodiversity Management Strategy as part of their development proposals. This could include provision for biodiversity awareness training to employees and contractors so as to avoid unnecessary adverse impacts on biodiversity during the construction and operation stages.	
	5.4.20 In the design of any direct cooling system the locations of the intake and outfall should be sited to avoid or minimise adverse impacts on the receiving waters, including their ecology. There should also be specific measures to minimise impact to fish and aquatic biota by entrainment and impingement or by excessive heat or biocidal chemicals from discharges to receiving waters.	
	5.4.21 To further minimise any adverse impacts on geodiversity, where appropriate applicants are encouraged to produce and implement a Geodiversity Management Strategy to preserve and enhance access to geological interest features, as part of relevant development proposals.	
	5.4.22 The Secretary of State should consider what appropriate requirements should be attached to any consent and/or in any planning obligations entered into, in order to ensure that any mitigation or biodiversity net gain measures, if offered, are delivered and maintained. Any habitat creation or enhancement delivered for biodiversity net gain should generally be maintained for a minimum period of 30 years.	
	5.4.23 The Secretary of State will need to take account of what mitigation measures may have been agreed between the applicant and Natural England (or the Countryside Council for Wales) SNCB or the Marine Management Organisation (MMO),, and whether Natural England (or the Countryside Council for Wales) SNBC or the MMO has granted or refused or intends to grant or refuse, any relevant licences, including protected species mitigation licences.	
	84 Government Circular: Biodiversity and Geological Conservation – Statutory Obligations and their Impact within the Planning System (ODPM 06/2005, Defra 01/2005) available via TSO website	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	be noted that this document does not cover more recent legislative requirements, such as the Marine Strategy Framework Directive. 98 Planning for Biodiversity and Geological Conservation: A Guide to Good Practice (March	
	2006). 99 'Working with the grain of nature' applies in England only. to protect the most important Regulations 2010.	
	85 The MHCLG Natural Environment Guidance can be found at https://www.gov.uk/guidance/natural-environment	
	86 In line with the principle in paragraph 4.2.8, the term 'harm' should be understood to mean 'significant harm'.	
	87 This does not prevent the loss of such trees where the Secretary of State is satisfied that their loss is unavoidable.	
	88 Certain plant and animal species, including all wild birds, are protected under the Wildlife and Countryside Act 1981. European Certain plant and animal species are also protected under the Conservation of Habitats and Species Regulations 2010. Some other animals are protected under their own legislation, for example Protection of Badgers Act 1992. 406	
	89 Lists of habitats and species of principal importance for the conservation of biological diversity in England published in response to Section 41 of the Natural Environment and Rural Communities Act 2006 are available from the Biodiversity Action Reporting System website at 5.3.19 Where the applicant cannot demonstrate that appropriate mitigation measures will be put in place the IPC should consider what appropriate requirements should be attached to any consent and/or planning obligations	
	entered into. 5.3.20 The IPC: http://ukbap-reporting.org.uk/our-biodiversity-reportingsystem	
	⁹⁰ See guidance on the protection of wild birds here: https://www.gov.uk/guidance/wild-birds-protection-surveysand-licences	
Civil and Military Aviation	Introduction	There are no proposed changes to EN-1 of relevance to the Proposed Scheme. Therefore,
and Defence Interests (Part 5.4-5 of EN-1)	5.45.1 Civil and military aerodromes, aviation technical sites, and other types of defence interests (both onshore and offshore) can be affected by new energy development. Aviation	the assessment of adopted EN-1 policy relating to 'civil and military aviation and defence interests' is relevant to both the adopted and emerging NPS policy.
	5.45.2 UK airspace is important for both civilian and military aviation interests. It is essential that the safety of UK aerodromes, aircraft and airspace is not adversely affected by new energy infrastructure. Similarly, aerodromes can have important economic and social benefits, particularly at the regional and local level. Commercial civil aviation is largely confined to designated corridors of controlled airspace and set approaches to airports. However, civilian leisure and military aircraft may often fly outside of 'controlled air space'. The approaches and flight patterns to aerodromes are not necessarily routine and can be irregular owing to a variety of factors including the performance characteristics of the aircraft concerned and the prevailing meteorological conditions.	
	5.45.3 Certain civil aerodromes, and aviation technical sites, selected on the basis of their importance to the national air transport system, are officially safeguarded in order to ensure that their safety and operation are not compromised by new development. A similar official safeguarding system applies to certain military aerodromes and defence assets, selected on the basis of their strategic importance. Areas of airspace around aerodromes used by aircraft taking off or on approach and landing are described as "obstacle limitation surfaces" (OLS). OLS for civil aerodromes are defined according to criteria set out in relevant Civil Aviation Authority (CAA) guidance107guidance91 and for military aerodromes according to MoD criteria. Aerodromes that are officially safeguarded will have officially produced plans that show the OLS.	

Drax Bioenergy with Carbon Capture and Storage

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	5.45.4 The certified Safeguarding maps depicting the OLS and other criteria (for example to minimise "birdstrike" hazards) are deposited with the relevant local planning authorities. DfT/ODPM Circular 01/2003108200392 provides advice to planning authorities on the official safeguarding of aerodromes and includes a list of the aerodromes which are officially safeguarded. The Circular and CAA guidance also recommenderecommends that the operators of aerodromes which are not officially safeguarded should take steps to protect their aerodrome from the effects of possible adverse development by establishing an agreed consultation procedure between themselves and the local planning authority or authorities.	
	5.45.5 There are also "Public Safety Zones" (PSZs) at the end of runways of the busiest airports in the UK, within which development is restricted to minimise risks to people on the ground in the event of an aircraft accident on take-off 107 CAA (Dec 2008) CAP 168: Licensing of Aerodromes. 108 DfT/ODPM Circular 01/2003: Safeguarding, Aerodromes, Technical Sites and Military Explosives Storage Areas. or landing. Maps showing the PSZs are deposited with the relevant local planning authorities. DfT/ODPM Circular 01/2010 provides advice to local planning authorities on Public Safety Zones109.Zones.93	
	5.45.6 The military Low Flying system covers the whole of the UK and enables low flying activities as low as 75m (mean separation distance). A considerable amount of military flying for training purposes is conducted at as low as 30m in designated Tactical Training Areas (TTAs) in mid Wales, Cumbria, the Scottish Border region and in the Electronic Warfare Range in the Scottish Border area. In addition, military helicopters may operate down to ground level. New energy infrastructure may cause obstructions in Ministry of Defence (MoD) low flying areas.	
	5.45.7 Safe and efficient operations within UK airspace is dependent upon communications, navigation and surveillance (CNS) infrastructure, including radar (often referred to as 'technical sites'). Energy infrastructure development may interfere with the operation of CNS systems such as radar. It can also act as a reflector or diffractor of radio signals upon which Air Traffic Control Services rely (an effect which is particularly likely to arise when large structures, such as wind turbines, are located in close proximity to Communications and Navigation Aids and technical sites). Wind turbines may also cause false returns when built in line of sight to Primary or Secondary Surveillance radar installations.	
	Other defence interests 5.4 Other defence interests 5.5.8 The MoD operates military training areas, military danger zones (offshore Danger and Exercise areas), military explosives storage areas and TTAs. There are extensive Danger and Exercise Areas across the UK Continental Shelf Area (UKCS) for military firing and highly surveyed routes to support Governmentgovernment shipping that are essential for national defence.	
	5.45.9 Other operational defence assets may be affected by new development, for example the Seismological Monitoring Station at Eskdalemuir and maritime acoustic facilities used to test and calibrate noise emissions from naval vessels, such as at	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	Portland Harbour. The MoD also operates Air Defence radars and Meteorological radars which have wide coverage over the UK (onshore and offshore). It is important that new energy infrastructure does not significantly impede or compromise the safe and effective use of any defence assets.	
	Applicant's assessment	
	5.45.10 Where the proposed development may have an effect on civil or military aviation and/or other defence assets an assessment of potential effects should be set out in the ES (see Section 4.2).	
	5.45.11 The applicant should consult the MoD, Civil Aviation Authority (CAA ₇), NATS and any aerodrome – licensed or otherwise – likely to be affected by the proposed development in preparing an assessment of the proposal on aviation or other defence interests. 109 DfT/ODPM Circular 01/2002: Control of Development in Airport Safety Zones.	
	5.45.5.12 Any assessment of aviation or other defence interests should include potential impacts of the project upon the operation of CNS infrastructure, flight patterns (both civil and military), other defence assets and aerodrome operational procedures. It should also assess the cumulative effects of the project with other relevant projects in relation to aviation and defence.	
	5.45.13 If any relevant changes are made to proposals during the pre-application and determination period, it is the responsibility of the applicant to ensure that the relevant aviation and defence consultees are informed as soon as reasonably possible.	
	IPCSecretary of State decision making	
	5.45.14 The IPCSecretary of State should be satisfied that the effects on civil and military aerodromes, aviation technical sites and other defence assets have been addressed by the applicant and that any necessary assessment of the proposal on aviation or defence interests has been carried out. In particular, ithe Secretary of State should be satisfied that the proposal has been designed to minimise adverse impacts on the operation and safety of aerodromes and that reasonable mitigation is carried out. It may also be appropriate to expect operators of the aerodrome to consider making reasonable changes to operational procedures. When assessing the necessity, acceptability, and reasonableness of operational changes to aerodromes, the IPCSecretary of State should satisfy itselfbe satisfied that it hasthey have the necessary information regarding the operational procedures along with any demonstrable risks or harm of such changes, taking into account the cases put forward by all parties. When making such a judgement in the case of military aerodromes, the IPCSecretary of State should have regard to interests of defence and national security.	
	5.45.15 If there are conflicts between the Government's government's energy and transport policies and military interests in relation to the application, the IPCSecretary of State should expect the relevant parties to have made appropriate efforts to work together to identify realistic and pragmatic solutions to the conflicts. In so doing, the	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	parties should seek to protect the aims and interests of the other parties as far as possible.	
	5.45.16 There are statutory requirements concerning lighting to tall structures110.structures.94 Where lighting is requested on structures that goes beyond statutory requirements by any of the relevant aviation and defence consultees, the IPCSecretary of State should satisfy itselfbe satisfied of the necessity of such lighting taking into account the case put forward by the consultees. The effect of such lighting on the landscape and ecology may be a relevant consideration.	
	5.45.17 Where, after reasonable mitigation, operational changes, obligations and requirements have been proposed, the IPCSecretary of State considers that:	
	~ •A development would prevent a licensed aerodrome from maintaining its licence;	
	 The benefits of the proposed development are outweighed by the harm to aerodromes serving business, training or emergency service needs, 110 Articles 219 and 220. Air Navigation Order 2009. taking into account the relevant importance and need for such aviation infrastructure; or 	
	 The development would significantly impede or compromise the safe and effective use of defence assets or significantly limit military training; 	
	 The development would have an impact on the safe and efficient provision of en routeenroute air traffic control services for civil aviation, in particular through an adverse effect on the infrastructure required to support communications, navigation or surveillance systems; consent should not be granted. 	
	Mitigation	
	5.45.18 Where a proposed energy infrastructure development would significantly impede or compromise the safe and effective use of civil or military aviation or defence assets and or significantly limit military training, the IPCSecretary of State may consider the use of 'Grampian111Grampian conditions' 95, or other forms of conditionrequirement which relate to the use of future technological solutions, to mitigate impacts. Where technological solutions have not yet been developed or proven, the IPC will need to consider the Secretary of State will need to consider the likelihood of a solution becoming available within the time limit for implementation of the development consent. In this context, where new technologies to mitigate the adverse effects of wind farms on radar are concerned, the IPCSecretary of State should have regard to any Governmentgovernment guidance which emerges from the joint Government/Industrygovernment/industry Aviation Plan. 5.45.19 Mitigation for infringement of OLS may include112: oinclude96:	
	Amendments to layout or scale of infrastructure to reduce the height, provided that it does not result in an unreasonable reduction of capacity or unreasonable constraints on the operation of the proposed energy infrastructure;	
	 Changes to operational procedures of the aerodromes in accordance with relevant guidance, provided that safety assurances can be provided by the operator that are 	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	acceptable to the CAA where the changes are proposed to a civilian aerodrome (and provided that it does not result in an unreasonable reduction of capacity or unreasonable constraints on the operation of the aerodrome); and	
	 Installation of obstacle lighting and/or by notification in Aeronautical Information Service publications. 	
	5.45.20 For CNS infrastructure, the UK military Low Flying system (including TTAs) and designated air traffic routes, mitigation may also include: ● lighting; ● operational airspace changes; and 111 A negative condition that prevents the start of a development until specific actions, mitigation or other development have been completed. 112 Where mitigation is required using a condition or planning obligation, the tests set out at paragraphs 4.1.7 – 4.1.8 in EN-1 should be applied. ●	
	~ Lighting	
	~ Operational airspace changes	
	 Upgrading of existing CNS infrastructure, the cost of which the applicant may reasonably be required to contribute in part or in full- 	
	5.45.21 Mitigation for effects on radar, communications and navigational systems may include reducing the scale of a project, although in some cases it is likely to be unreasonable for the IPCSecretary of State to require mitigation by way of a reduction in the scale of development, for example, where reducing the tip height of wind turbines in aan offshore wind farm would result in a material reduction in electricity generating capacity or operation would be severely constrained. However, there may be exceptional circumstances where a small reduction in such function will result in proportionately greater mitigation. In these cases, the IPCSecretary of State may consider that the benefit of the mitigation outweighs the marginal loss of function.	
	91 CAA CAP 168: Licensing of Aerodromes: https://publicapps.caa.co.uk/modalapplication.aspx?appid=11&mode=detail&id=6114	
	⁹² DfT/ODPM Circular 01/2003: Safeguarding, Aerodromes, Technical Sites and Military Explosives Storage Areas.	
	93 DfT Circular 01/2010: Control of Development in Airport Public Safety Zones: https://www.gov.uk/government/publications/control-of-development-in-airport-public-safety-zones	
	⁹⁴ Articles 222 and 223. Air Navigation Order 2016.	
	⁹⁵ As set out on https://www.gov.uk/guidance/use-of-planning-conditions, a Grampian condition refers to a condition worded in a negative form, i.e., prohibiting development authorised by the planning permission or other aspects linked to the planning permission (e.g. occupation of premises) until a specific action has been taken (such as the provision of supporting infrastructure).	
	⁹⁶ Where mitigation is required using a condition or planning obligation, the tests set out at paragraphs 4.1.7 – 4.1.8 in EN-1 should be applied.	
Flood-Risk	Introduction	Land within the Order Limits is not located on the coast; therefore, the Applicant considers
(Part 5.7 of EN-1)Coastal Change	5.6.1 The government's aim is to ensure that our coastal communities continue to prosper and adapt to coastal change. This means planning should:	the proposed Part 5.6 of draft EN-1 is not relevant to the Proposed Scheme.
(Part 5.6 of Draft EN-1)	 Ensure that policies and decisions in coastal areas are based on an understanding of coastal change over time 	

Prevent new development from being put at risk from coastal change by: (i) avoiding inappropriate development that adds to the impacts of physical changes to the coastal change or any development that adds to the impacts of physical changes. (ii) directing development away from areas vulnerable to coastal change. Ensure that the risk to development which is, exceptionally, necessary in coastal change areas because it requires a coastal cloation and provides substantial economic and social benefits to communities, is managed over its planned lifetime. Ensure that plans are in place to secure the long-term sustainability of coastal areas. 5.6.2 For the purpose of this section, coastal change means physical change to the shoretime, i.e. originor, coastal landslop, permanent inundation and coastal accretion. Where enhance intrastructure projects are proposed on the coastal accretion. Where enhance infrastructure projects are proposed on the coastal coastal correlion. Where enhance individual change happen were proposed on the coastal coastal correlion. Where enhance infrastructure projects are proposed on the coastal coastal change is a key consideration as well as a vital element of climate change adaptation (see Section 4.9). Some inside of coastal change happen were yrindfully, charter sover shorter timescales. Some are the result of purely natural processes chors, including potentially significant modifications of the coastine or coastal enhance and with how to ensure that developments are resilient to engage and with how to ensure that developments are resilient to engage and with how to ensure that developments are resilient to engage and potential future coastal change. 5.6.3 The construction of an onshore energy project on the coast may involve, for example, dredging, dedge spot deposition, coeling valer, culvert construction, maine landing bally construction and reload and coastal protection mainter excluding valerations. 5.6.3 The scale on the coastiline, assettle and enhance and protection mainte	Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
change or any development that adds to the impacts of physical changes to the coast (ii) directing development away from areas valuerable to coastal change - Ensure that the risk to development which is, exceptionally, necessary in coastal change areas because it requires a coastal location and provides substantial economic and social benefits to communities, is managed over its planned lifetime - Ensure that plans are in place to secure the long-term sustainability of coastal areas 5.0.2 For the purpose of this section, coastal change means physical change to the shoreline, i.e. erosion, coastal landslip, permanent inundation and coastal accretion. Where orashore intrastructure projects are proposed on the coast, coastal change is a key consideration as well as a vital element of climate change as esbection 4.9). Some kinds of coastal change happen every gradually, others over shorter timescales. Some are the result of purely natural processes; others, including potentially significant modifications of the coastiline or coastal environment resulting from climate change, are wholloy or partly man-made. This socion is concorned both with the impacts which energy infrastructure can have as a driver of coastal change and with how to ensure that developments are resilient to ongoing and potential future coastal change. 5.6.3 The construction of an onshore energy project on the coast may involve, for example, dedging, diedge spoil deposition, cooling water, culvert construction, maine landing facility construction and flood and coastal protection measures which could result in direct effects on the coastiline, seaded and marine ecology and biothersity. 5.6.4 Additionally, indirect changes to the coastiline and seabed might arise as a result of a hydrodynamic response to some of these direct changes. This could lead to localised or more wideoproad coastal oresion or accretion and changes to offshore features such as submerged banks and ridges and marine biotheristy. 5.6.5 This section of 3.0 nitro frick and S		~ Prevent new development from being put at risk from coastal change by:	
change areas because it requires a coastal location and provides substantial economic and social benefits to communities, is managed over its planned lifetime - Ensure that plans are in place to secure the long-term sustainability of coastal areas 5.6.2 For the purpose of this section, coastal change means physical change to the shoreline, i.e. ension, coastal landslip, permanent inundation and coastal accretion. Where onshore infrastructure projects are proposed on the coast, coastal change is a key consideration as well as a vital element of climate change adaptation (see Section 4.9). Some kinds of coastal change happen every gradually, others over shorter timescales. Some are the result of purely natural processes; others, including potentially significant modifications of the coastiline or coastal environment resulting from climate change, are wholly or partly man-made. This section is concerned both with the impacts which energy infrastructure can have as a driver of coastal change and with how to ensure that developments are resilient to ongoing and potential fluture coastal change. 5.6.3 The construction of an onshore energy project on the coast may involve, for example, dredging, dredge spoil deposition, cooling water, culvart construction, marine landing facility construction and fload and coastal protection measures which could result in direct effects on the coastiline, seabed and marine ecology and biodiversity. 5.6.4 Additionally, indirect changes to the coastiline and seabed might arise as a result of a hydrodynamic response to some of these direct changes. This could lead to localised or more widespread coastal erosion or accretion and changes to offshore features such as submerged banks and ridges and marine biodiversity. 5.6.5 This section only applies to onshore energy infrastructure projects situated on the coast. The impacts of offshore renewable energy projects on marine life and coastal geomorphology are considered in En-N.3. Section 5.4 on biodiversity and geological conservation, S		change or any development that adds to the impacts of physical changes to the coast	
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		Applicant's assessment	
5.6.6 Where relevant, applicants should undertake coastal geomorphological and sediment transfer modelling to predict and understand impacts and help identify relevant mitigating or compensatory measures.			

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	5.6.7 The ES (see Section 4.2) should include an assessment of the effects on the coast. In particular, applicants should assess:	
	The impact of the proposed project on coastal processes and geomorphology, including by taking account of potential impacts from climate change. If the development will have an impact on coastal processes the applicant must demonstrate how the impacts will be managed to minimise adverse impacts on other parts of the coast	
	The implications of the proposed project on strategies for managing the coast as set out in Shoreline Management Plans (SMPs) (which provide a large-scale assessment of the physical risks associated with coastal processes and present a long term policy framework to reduce these risks to people and the developed, historic and natural environment in a sustainable manner), any relevant Marine Plans, River Basin Management Plans and capital programmes for maintaining flood and coastal defences	
	 The effects of the proposed project on marine ecology, biodiversity and protected sites 	
	 How coastal change could affect flood risk management infrastructure, drainage and flood risk 	
	 The effects of the proposed project on maintaining coastal recreation sites and features 	
	 The vulnerability of the proposed development to coastal change, taking account of climate change, during the project's operational life and any decommissioning period 	
	5.6.8 For any projects involving dredging or disposal into the sea, the applicant should consult the MMO at an early stage. Where the project has the potential to have a major impact in this respect, this is covered in the technology specific NPSs. For example, EN-4 looks further at the environmental impacts of dredging in connection with Liquified Natural Gas (LNG) tanker deliveries to LNG import facilities.	
	5.6.9 The applicant should be particularly careful to identify any effects of physical changes on the integrity and special features of Marine Protected Areas (MPAs). These could include MCZs, candidate marine Special Areas of Conservation (SACs), coastal SACs and candidate coastal SACs, coastal Special Protection Areas (SPAs) and potential coastal SPAs, Ramsar sites, Sites of Community Importance (SCIs) and potential SCIs and SSSIs. Secretary of State decision making	
	5.6.10 The Secretary of State should be satisfied that the proposed development will be resilient to coastal erosion and deposition, taking account of climate change, during the project's operational life and any decommissioning period. Proposals that aim to facilitate the relocation of existing energy infrastructure from unsustainable locations which are at risk from coastal change, should be supported where it would result in climate resilient infrastructure.	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	5.6.11 The Secretary of State should not normally consent new development in areas of dynamic shorelines where the proposal could inhibit sediment flow or have an adverse impact on coastal processes at other locations. Impacts on coastal processes must be managed to minimise adverse impacts on other parts of the coast. Where such proposals are brought forward, consent should only be granted where the Secretary of State is satisfied that the benefits (including need) of the development outweigh the adverse impacts.	
	5.6.12 The Secretary of State should ensure that applicants have restoration plans for areas of foreshore disturbed by direct works and will undertake pre- and post-construction coastal monitoring arrangements with defined triggers for intervention and restoration.	
	5.6.13 The Secretary of State should examine the broader context of coastal protection around the proposed site, and the influence in both directions, i.e., coast on site, and site on coast.	
	5.6.14 The Secretary of State should consult the MMO on projects which could impact on coastal change, since the MMO may also be involved in considering other projects which may have related coastal impacts.	
	5.6.15 In addition to this NPS, the Secretary of State must have regard to the appropriate marine policy documents, as provided for in the Marine and Coastal Access Act 2009. The Secretary of State may also have regard to any relevant SMPs. 5.6.16 Substantial weight should be attached to the risks of flooding and coastal erosion. The applicant must demonstrate that full account has been taken of the policy on assessment and mitigation in paragraphs 4.2.1 to 4.2.8 of this NPS, taking account of the potential effects of climate change on these risks as discussed above.	
	Mitigation	
	5.6.17 Applicants should propose appropriate mitigation measures to address adverse physical changes to the coast, in consultation with the MMO, the EA or NRW, LPAs, other statutory consultees, Coastal Partnerships and other coastal groups, as it considers appropriate. Where this is not the case, the Secretary of State should consider what appropriate mitigation requirements might be attached to any grant of development consent.	
Dust, Odour, Artificial Ligh Smoke, Steam, and Insect Infestation Flood Risk (Part 5.7 of EN-1)		The emerging policy text demonstrates no significant changes are proposed to EN-1 in relation to dust, odour, artificial light, smoke, steam, and insect infestation. The assessment of adopted policy presented at Table B.1 above of Appendix B therefore remains relevant.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	5.67.2 Because of the potential effects of these emissions and infestation, and in view of the availability of the defence of statutory authority against nuisance claims described in Section 4.14, it is important that the potential for these impacts is considered by the IPC. Secretary of State.	
	5.67.3 For energy NSIPs of the type covered by this NPS, some impact on amenity for local communities is likely to be unavoidable. The aim should be to keep impacts to a minimum, and at a level that is acceptable.	
	Applicant's assessment	
	5.67.4 The applicant should assess the potential for insect infestation and emissions of odour, dust, steam, smoke, and artificial light to have a detrimental impact on amenity, as part of the Environmental Statement.ES .	
	5.67.5 In particular, the assessment provided by the applicant should describe:	
	~ The type, quantity and timing of emissions;	
	 Aspects of the development which may give rise to emissions; 	
	 Premises or locations that may be affected by the emissions; 	
	 Effects of the emission on identified premises or locations; and 	
	 Measures to be employed in preventing or mitigating the emissions- 	
	5.67.6 The applicant is advised to consult the relevant local planning authority and, where appropriate, the EA about the scope and methodology of the assessment.	
	IPCSecretary of State decision making	
	5.67.7 The IPCSecretary of State should satisfy itself that:	
	 An assessment of the potential for artificial light, dust, odour, smoke, steam and insect infestation to have a detrimental impact on amenity has been carried out; and 	
	 That all reasonable steps have been taken, and will be taken, to minimise any such detrimental impacts. 	
	5.67.8 If the IPCSecretary of State does grant development consent for a project, itthe Secretary of State should consider whether there is a justification for all of the authorised project (including any associated development) being covered by a defence of statutory authority against nuisance claims. If itthe Secretary of State cannot conclude that this is justified, itthe Secretary of State should disapply in whole or in part the defence through a provision in the development consent order.	
	5.67.9 Where itthe Secretary of State believes it appropriate, the IPCSecretary of State may consider attaching requirements to the development consent, in order to secure certain mitigation measures.	
	5.67.10 In particular, the IPCSecretary of State should consider whether to require the applicant to abide by a scheme of management and mitigation concerning insect	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	infestation and emissions of odour, dust, steam, smoke, and artificial light from the development. The IPCSecretary of State should consider the need for such a scheme to reduce any loss to amenity which might arise during the construction, operation and decommissioning of the development. A construction management plan may help codify mitigation at that stage.	
	Mitigation	
	5.67.11 Mitigation measures may include one or more of the following:	
	 Engineering: prevention of a specific emission at the point of generation; control, containment and abatement of emissions if generated; 	
	 Lay-out: adequate distance between source and sensitive receptors; reduced transport or handling of material; and 	
	 Administrative: limiting operating times; restricting activities allowed on the site; implementing management plans. 	
Historic Environment-Flood Risk (Part 5.8 of EN-1)	Introduction 5.78.1 Flooding is a natural process that plays an important role in shaping the natural environment. However, flooding threatens life and causes substantial disruption and damage to property. The effects of weather events on the natural environment, life and property can be increased in severity both as a consequence of decisions about the location, design and nature of settlement and land use, and as a potential consequence of future climate change. Having resilient energy infrastructure not only reduces the risk of flood damages to the infrastructure, it also reduces the disruptive impacts of flooding on those homes and businesses that rely on that infrastructure. Although flooding cannot be wholly prevented, its adverse impacts can be avoided or reduced through good planning and management. 5.7.2 Climate change over the next few decades is likely to mean milder, wetter winters and hotter, drier summers in the UK, while sea levels will continue to rise.5.8.2 The government's Flood and Coastal Erosion Risk Management Policy Statement sets out our ambition to create a nation more resilient to future flood and coastal erosion risk. It outlines policies and actions which will accelerate progress to better protect and better prepare the country against flooding and coastal erosion. 5.8.3 All buildings in flood risk areas can improve their preparedness to reduce costs and disruption to key public services when a flood happens. Where infrastructure is not better protected as part of a wider community scale flood defence scheme, those who own and run infrastructure sites – whether in public or private hands – are expected to take action to keep water out, minimise the damage if water gets in through flood resilient materials, and reduce the disruption caused. This includes effective contingency planning to mitigate the impacts of flooding on the delivery of important services. 5.8.4 Climate change is already having an impact and is expected to have an increasing impact on the UK throughout this cent	Proposed text in Part 5.8 of draft EN-1 emphasises the importance of energy infrastructure being resilient to flood risk, at proposed paragraph 5.8.1. As set out in Table 1 above of Appendix B, primary mitigation has ensured the infrastructure can still operating should a flood event occur. This is also in compliance with proposed paragraphs 5.8.3 and 5.8.5. The Government's Flood and Coastal Erosion Risk Management Policy Statement (2020) is referenced at proposed paragraph 5.8.2, which sets out the Government's ambition to create a flood risk resilient nation; outlining policies and actions to achieve this. We do not anticipate the Proposed Scheme would present any issues with complying with this Policy Statement. Proposed paragraph 5.8.7 proposes text requiring FRAs to consider climate change across a range of climate scenarios. The FRA presented at Appendix 12.1 of the ES (decument reference 6.3.12.1AS-088) does this by using a range of climate change allowances within the hydraulic modelling that was undertaken. The FRA also includes information on flood likelihood, speed-of-onset, duration and hazard, the latter of which is informed by depth and velocity. Natural flood management (NFM) measures are not appropriate, due to nature of the Proposed Scheme and as the Drax Power Station site (i.e. the siting of the proposed operational equipment) is part of the existing development. The Surface Water Drainage Strategy covers the information listed in points i – ix in the new bullet points proposed in paragraph 5.8.7. In line with proposed paragraph 5.8.14, the Proposed Scheme will offset any net loss of floodplain storage through delivery of a Floodplain Compensation Area. The remaining text proposed to EN-1 in relation to Flood Risk is addressed in the assessment of adopted policy in Table B. 1 above in Appendix B.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	show an increased chance of milder, wetter winters and hotter, drier summers in the UK, with more intensive rainfall causing flooding. Sea levels will continue to rise beyond the end of the century, increasing risks to vulnerable coastal communities. Within the lifetime of energy projects, these factors will lead to increased flood risks in areas susceptible to flooding, and to an increased risk of the occurrence of floods in some areas which are not currently thought of as being at risk. The A robust approach to flood risk management is a vital element of climate change adaptation; the applicant and the IPCSecretary of State should take account of the policy on climate change adaptation in Section 4.89.	
	5.7.38.5 The aims of planning policy on development and flood risk are to ensure that flood risk from all sources of flooding is taken into account at all stages in the planning process to avoid inappropriate development in areas at risk of flooding, and to directsteer new development away fromto areas at highestwith the lowest risk of flooding. Where new energy infrastructure is, exceptionally, necessary in such areas, policy aims to make it safe without increasing flood risk elsewhere and, where possible, by reducing flood risk overall. It should also be designed and constructed to remain operational in times of flood. Proposals that aim to facilitate the relocation of existing energy infrastructure from unsustainable locations which are or will be at unacceptable risk of flooding, should be supported where it would result in climate-resilient infrastructure.	
	Applicant's assessment	
	5.7.4 Applications for energy projects of 1 hectare or greater in Flood Zone 1 in England or Zone A in Wales113 and all proposals 8.6 A site-specific flood risk assessment should be provided for all energy projects located in Flood Zones 2 and 3 in England or Zones B and C in Wales should be accompanied. In Flood Zone 1 in England or Zone A in Wales, an assessment should accompany all proposals involving:	
	~ Sites of 1 hectare or more	
	 Land which has been identified by a flood risk assessment (FRA). An FRA will also be required where an energy project less than 1 hectarethe EA or NRW as having critical drainage problems • land identified (for example in a local authority strategic flood risk assessment) as being at increased flood risk in future 	
	 Land that may be subject to other sources of flooding other than rivers and the sea (for example surface water), or) 	
	Where the EA or NRW, Lead Local Flood Authority, Internal Drainage Board or other body have indicated that there may be drainage problems. This should identify and assess the risks of all forms of flooding to and from the project and demonstrate how these flood risks will be managed, taking climate change into account.	
	5.8.7.5 The minimum requirements for FRAsFlood Risk Assessments (FRA) are that they should:	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	 Be proportionate to the risk and appropriate to the scale, nature and location of the project; Consider the risk of flooding arising from the project in addition to the risk of flooding to the project; 113 The Flood Zones refer to the probability of flooding from rivers, the sea and tidal sources and ignore the presence of existing defences, because these can be breached, overtopped and may not be in existence for the lifetime of the project. The definition of Flood Zones can be found in PPS25 (in 	
	 England), TAN 15 (in Wales), or their relevant successor documents. Take the impacts of climate change into account, across a range of climate scenarios, clearly stating the development lifetime over which the assessment has been made; •made⁹⁷; 	
	 Be undertaken by competent people, as early as possible in the process of preparing the proposal; Consider both the potential adverse and beneficial effects of flood risk management infrastructure, including raised defences, flow channels, flood storage 	
	areas and other artificial features, together with the consequences of their failure; and exceedance Consider the vulnerability of those using the site, including arrangements for safe access; and escape	
	 Consider and quantify the different types of flooding (whether from natural and human sources and including joint and cumulative effects) and identify flood risk reduction measures, so that assessments are fit for the purpose of the decisions being made; include information on flood likelihood, speed-of-onset, depth, velocity, hazard and duration 	
	 Identify and secure opportunities to reduce the causes and impacts of flooding overall, making as much use as possible of natural flood management techniques as part of an integrated approach to flood risk management 	
	 Consider the effects of a range of flooding events including extreme events on people, property, the natural and historic environment and river and coastal processes; 	
	Include the assessment of the remaining (known as 'residual') risk after risk reduction measures have been taken into account and demonstrate that this is acceptable for the particular project; • these risks can be safely managed, ensuring people will not be exposed to hazardous flooding	
	Consider how the ability of water to soak into the ground may change with development, along with how the proposed layout of the project may affect drainage systems; • consider if there is a need to be safe and remain operational during a worst case flood event over the development's lifetime; and •.	
	Information should include:	
	i. Describe the existing surface water drainage arrangements for the site	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	ii. Set out (approximately) the existing rates and volumes of surface water run-off generated by the site. Detail the proposals for restricting discharge rates	
	iii. Set out proposals for managing and discharging surface water from the site using sustainable drainage systems and accounting for the predicted impacts of climate change. If sustainable drainage systems have been rejected, present clear evidence of why their inclusion would be inappropriate	
	iv. Demonstrate how the hierarchy of drainage options (refer to PPG Sustainable Drainage Systems section) has been followed. Explain and justify why the types of Sustainable Drainage Systems and method of discharge have been selected and why they are considered appropriate. Where cost is a reason for not including Sustainable Drainage Systems, provide information to enable comparison with the lifetime costs of a conventional public sewer connection	
	v. Explain how sustainable drainage systems have been integrated with other aspects of the development such as open space or green infrastructure, so as to ensure an efficient use of the site	
	vi. Describe the multifunctional benefits the sustainable drainage system will provide vii. Set out which opportunities to reduce the causes and impacts of flooding have been identified and included as part of the proposed sustainable drainage system	
	viii. Explain how run-off from the completed development will be prevented from causing an impact elsewhere	
	ix. Explain how the sustainable drainage system been designed to facilitate maintenance and, where relevant, adoption. Set out plans for ensuring an acceptable standard of operation and maintenance throughout the lifetime of the development	
	 Detail those measures that will be included to ensure the development will be safe and remain operational during a flooding event throughout the development's lifetime without increasing flood risk elsewhere 	
	 Be supported by appropriate data and information, including historical information on previous events. 	
	5.7.68.8 Further guidance can be found in the Planning Practice GuideGuidance Flood Risk and Coastal Change section which accompanies Planning Policy Statement 25 (PPS25), the NPPF, TAN15 for Wales or successor documents.	
	5.7.78.9 Applicants for projects which may be affected by, or may add to, flood risk should arrange pre-application discussions with the EA or NRW, and, where relevant, other bodies such as Lead Local Flood Authorities, Internal Drainage Boards, sewerage undertakers, navigation authorities, highways authorities and reservoir owners and operators. Such discussions should identify the likelihood and possible extent and nature of the flood risk, help scope the FRA, and identify the information that will be required by the IPCSecretary of State to reach a decision on the application	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	when it is submitted. The IPCSecretary of State should advise applicants to undertake these steps where they appear necessary but have not yet been addressed.	
	5.7-8.10 If the EA or NRW has concerns about the proposal on flood risk grounds, the applicant should discuss these concerns with the EA or NRW and take all reasonable steps to agree ways in which the proposal might be amended, or additional information provided, which would satisfy the Environment Agency's EA's or NRW's concerns.	
	IPC Secretary of State decision making	
	5.7.98.11 In determining an application for development consent, the IPCSecretary of State should be satisfied that where relevant:	
	 The application is supported by an appropriate FRA; the Sequential Test has been applied and satisfied as part of site selection; 	
	 A sequential approach has been applied at the site level to minimise risk by directing the most vulnerable uses to areas of lowest flood risk; 	
	 The proposal is in line with any relevant national and local flood risk management strategy114; • priority has been given to the use ofstrategy98 • sustainable drainage systems (SuDs) (as required in the next paragraph on National Standards); and •) have been used unless there is clear evidence that their use would be inappropriate 	
	 In flood risk areas the project is appropriately designed and constructed to remain safe and operational during its lifetime, without increasing flood resilient and resistant, including risk elsewhere (subject to the exceptions set out in 5.8.18) 	
	 The project includes safe access and escape routes where required, as part of an agreed emergency plan, and that any residual risk can be safely managed over the lifetime of the development. 5.7.10 For 	
	 Land that is likely to be needed for present or future flood risk management infrastructure has been appropriately safeguarded from development to the extent that development would not prevent or hinder its construction-work, operation or maintenance 	
	5.8.12 For energy projects which hashave drainage implications, approval for the project's drainage system, including during the construction period, will form part of the development consent issued by the IPCSecretary of State. The IPCSecretary of State will therefore need to be satisfied that the proposed drainage system complies with any	
	National Standards published by Ministers under Paragraphparagraph 5(1) of Schedule 3 to the Flood and Water Management Act 2010. In addition, the development consent order, or any associated planning obligations, will need to make provision for the	
	adoption appropriate operation and maintenance of any SuDS, including throughout the project's lifetime. Where this is secured through the adoption of any SuDS features, any necessary access rights to property. The IPC will need to be granted. Where	
	relevant, the Secretary of State should be satisfied that the most appropriate body is being given the responsibility for maintaining any SuDS, taking into account the nature and security of the infrastructure on the proposed site. The responsible	
	and detailing of the influence details of the proposed offer. The responsibile	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	bodyResponsible bodies could include, for example, the applicant, the landowner, the relevant lead local flood authority, or water and sewerage company (through the Ofwatapproved Sewerage Sector Guidance ⁹⁹), or another body, such as an Internal Drainage Board.	
	5.7.118.13 If the EA or NRW continues to have concerns and objects to the grant of development consent on the grounds of flood risk, the IPCSecretary of State can grant consent but would need to be satisfied before deciding whether or not to do so that all reasonable steps have been taken by the applicant and the EA or NRW to try to resolve the concerns.	
	5.7.12 The IPC5.8.14 Energy projects should not consent normally be consented within Flood Zone 3b the Functional Floodplain (where water has to flow or be stored in times of flood), or Zone C2 in Wales, or on land expected to fall within these zones within its predicted lifetime. However, where essential energy infrastructure has to be located in such areas, for operational reasons, they should only be consented if the development in-will not result in a net loss of floodplain storage and will not impede water flows.	
	The Sequential Test	
	5.8.15 Preference should be given to locating projects in areas of lowest flood risk. The Secretary of State should not consent development in flood risk areas (Flood Zone 2 in England or Zone B in Wales), accounting for all sources of flooding and the predicted impacts of climate change unless it is they are satisfied that the sequential test requirements have been met. It The Secretary of State should not consent development in Flood Zone 3 or Zone C unless it is they are satisfied that the Sequential and Exception Test requirements have been met. The technology- specific NPSs set out some exceptions to the application of the sequential test. However, when seeking development consent on a site allocated in a development plan through the application of the Sequential Test, informed by a strategic flood risk assessment, applicants need not apply the Sequential Test, but should apply the sequential approach to locating development within the site. 114 As provided for in section 9(1) of the Flood and Water Management Act 2010. The Sequential Test 5.7.13 Preference should be given to locating projects in Flood Zone 1 in England or Zone A in Wales. If there is no reasonably available site in Flood Zone 1 or Zone A, then projects can be located in Flood Zone 2 or Zone B. If there is no reasonably available site 115 in Flood Zones 1 or 2 or Zones A & B, then nationally significant energy infrastructure projects can be located in Flood Zone 3 or Zone C subject to the Exception Test provided the proposed development is consistent with the use for which the site was allocated and there is no new flood risk information that would have affected the outcome of the test. Consideration of alternative sites should take account of the policy on alternatives set	
	out in Section 4.42 above. All projects should apply the sequential approach to locating development within the site.	
	The Exception Test	
	5.7.148.16 If, following application of the sequential test, it is not possible, consistent with (taking into account wider sustainability sustainable development objectives,), for	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	the project to be located in zonesareas of lower probability of flooding than Flood Zone	
	3 or Zone C, flood risk the Exception Test can be applied, as required by table 3 of the	
	Planning Practice Guidance. The test provides a method of managing flood risk while	
	still-allowing necessary development to occur.go ahead in situations where suitable	
	sites at lower risk of flooding are not available.	
	5.7.158.17 The Exception Test is only appropriate for use where the sequential test	
	alone cannot deliver an acceptable site, taking into account the need for energy	
	infrastructure to remain operational during floods. It may also be appropriate to use it	
	where as a result of the alternative site(s) at lower risk of flooding being. It would only	
	be appropriate to move onto the Exception Test when the sequential test has identified	
	reasonably available, lower risk sites appropriate for the proposed development where,	
	accounting for wider sustainable development objectives, application of relevant	
	policies would provide a clear reason for refusing development in any alternative	
	locations identified. Examples could include alternative site(s) that are subject to	
	national designations such as landscape, heritage and nature conservation	
	designations, for example Areas of Outstanding Natural Beauty (AONBs), Sites of	
	Special Scientific Interest (SSSIs) and World Heritage Sites (WHS) it would not be	
	appropriate to require the development to be located on the alternative site(s). 5.7.16	
	All three elements of the test will have to be passed for development to be consented.	
	For the Exception Test to be passed: ● it must be demonstrated that the project	
	provides wider sustainability benefits to the community116 that outweigh flood risk; ●	
	the project should be on developable, previously developed land117 or, if it is not on	
	previously developed land, that there are no reasonable alternative sites on	
	developable previously developed land subject to any exceptions set out in the	
	technology-specific NPSs; and 115 When making the application, the applicant should	
	justify with evidence what area of search has been used in examining whether there	
	are reasonably available sites. This will allow the IPC to consider whether the	
	Sequential Test has been met as part of site selection. 116 These would include the	
	benefits (including need), for the infrastructure set out in Part 3. 117 Previously	
	developed land is that which is or was occupied by a permanent structure, including the	
	curtilage of the developed land and any associated fixed surface infrastructure. This	
	definition includes defence buildings, but excludes (a) land that is or has been occupied	
	by agricultural or forestry buildings (b) land that has been developed for minerals	
	extraction or waste disposal by landfill purposes where provision for restoration has	
	been made through development control procedures (c) land in built up areas such as parks, recreation grounds and allotments, which, although it may feature paths,	
	pavilions and other buildings, has not been previously developed (d) land that was previously developed but where the remains of the permanent surface structure or	
	fixed surface structure have blended into the landscape in the process of time (to the	
	extent that it can reasonably be considered as part of the natural surroundings). • a FRA must demonstrate that the project will be safe, without increasing flood risk	
	elsewhere subject to the exception below and, where possible, will reduce flood risk	
	Ciscwinere subject to the exception below and, where possible, will reduce 11000 HSK	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	overall. 5.7.17SSSIs and World Heritage Sites (WHS) which would not usually be considered appropriate.	
	5.8.18 Both elements of the test will have to be satisfied for development to be consented. To pass the Exception Test it should be demonstrated that:	
	 The project provides wider sustainability benefits to the community¹⁰⁰ that outweigh flood risk 	
	~ The project reduces flood risk overall, where possible	
	5.8.19 Exceptionally, where an increase in flood risk elsewhere cannot be avoided or wholly mitigated, the IPCSecretary of State may grant consent if it is they are satisfied that the increase in present and future flood risk can be mitigated to an acceptable level and taking account of the benefits of, including the need for, nationally significant energy infrastructure as set out in Part 3 above. In any such case the IPCSecretary of State should make clear how, in reaching its their decision, it has they have weighed up the increased flood risk against the benefits of the project, taking account of the nature and degree of the risk, the future impacts on climate change, and advice provided by the EA or NRW and other relevant bodies.	
	Mitigation	
	5.7.188.20 To satisfactorily manage flood risk, arrangements are required to manage surface water and the impact of the natural water cycle on people and property.	
	5.7.198.21 In this NPS, the term Sustainable Drainage Systems (SuDS) refers to the whole range of sustainable approaches to surface water drainage management including, where appropriate:	
	 Source control measures including rainwater recycling and drainage; infiltration devices to allow water to soak into the ground, that can include individual soakaways and communal facilities; 	
	 Filter strips and swales, which are vegetated features that hold and drain water downhill mimicking natural drainage patterns; 	
	 Filter drains and porous pavements to allow rainwater and run-off to infiltrate into permeable material below ground and provide storage if needed; 	
	 Basins ponds and tanks to hold excess water after rain and allow controlled discharge that avoids flooding; and 	
	 Flood routes to carry and direct excess water through developments to minimise the impact of severe rainfall flooding. 	
	5.7.208.22 Site layout and surface water drainage systems should cope with events that exceed the design capacity of the system, so that excess water can be safely stored on or conveyed from the site without adverse impacts.	
	5.7.218.23 The surface water drainage arrangements for any project should, accounting for the predicted impacts of climate change throughout the development's lifetime, be such that the volumes and peak flow rates of surface water leaving the site	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	are no greater than the rates prior to the proposed project, unless specific off-site arrangements are made and result in the same net effect.	
	5.7.228.24 It may be necessary to provide surface water storage and infiltration to limit and reduce both the peak rate of discharge from the site and the total volume discharged from the site. There may be circumstances where it is appropriate for infiltration facilities or attenuation storage to be provided outside the project site, if necessary, through the use of a planning obligation.	
	5.7.238.25 The sequential approach should be applied to the layout and design of the project. More vulnerable uses Vulnerable aspects of the development should be located on parts of the site at lower probability risk and residual risk of flooding. Applicants should seek opportunities to use open space for multiple purposes such as amenity, wildlife habitat and flood storage uses. Opportunities should be taken to lower flood risk by reducing the built footprint of previously developed sites and using SuDS.	
	5.7.24 Essential energy infrastructure which has to be located in flood risk areas should be designed to remain operational when floods occur. In addition, any energy projects proposed in Flood Zone 3b the Functional Floodplain (where water has to flow or be stored in times of flood), or Zone C2 in Wales, should only be permitted if the development will not result in a net loss of floodplain storage, and will not impede water flows. 5.7.255.8.26 The receipt of and response to warnings of floods is an essential element in the management of the residual risk of flooding. Flood Warning and evacuation plans should be in place for those areas at an identified risk of flooding. The applicant should take advice from the local authority emergency planning team,	
	emergency services and, where appropriate, from the local resilience forum when producing an evacuation plan for a manned energy project as part of the FRA. Any emergency planning documents, flood warning and evacuation procedures that are required should be identified in the FRA. 97 Refer to Flood risk assessments: climate change allowances - https://www.gov.uk/guidance/flood-	
	riskassessments-climate-change-allowances 98 As provided for in section 9(1) of the Flood and Water Management Act 2010. 99 Sewerage Sector Guidance: 100 These would include the benefits (including need), for the infrastructure set out in Part 3.	
Landscape and Visual	Introduction	The assessment of impact of the Proposed Scheme on the historic environment is
Historic Environment (Part 5.9 of EN-1)	5.89.1 The construction, operation and decommissioning of energy infrastructure has the potential to result in adverse impacts on the historic environment. 5.8 above, at and below the surface of the ground.	assessed with regard to adopted EN-1 policy at Table B-1 above of Appendix B. Aand remains relevant for the text of the proposed EN-1 policy. New requirements proposed at paragraph 5.9.14 have been considered in Chapter 10 (Heritage) of the ES (document reference 6.1.10 ABB 0.16). As such the Applicant considers the requirements of both the
	5.9.2 The historic environment includes all aspects of the environment resulting from the interaction between people and places through time, including all surviving physical remains of past human activity, whether visible, buried or submerged, landscaped and planted or managed flora.	reference 6.1.10APP-046). As such, the Applicant considers the requirements of both the adopted and emerging EN-1 policy relating to the 'historic environment' have been met.
	5.9.3 Those elements of the historic environment that hold value to this and future generations because of their historic, archaeological, architectural or artistic interest	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	are called "heritage assets'. Heritage assets". A heritage asset may be any building, monument, site, place, areabuildings, monuments, sites, places, areas or landscapelandscapes, or any combination of these. The sum of the heritage interests that a heritage asset holds is referred to as its significance118. 5.8.3 significance. Significance derives not only from a heritage asset's physical presence, but also from its setting.	
	5.9.4 Some heritage assets have a level of significance that justifies official designation. Categories of designated heritage assets are: a-World Heritage SiteSites; Scheduled MonumentMonuments; Protected Wreck SiteSites; Protected Military Remains; Listed Building; Buildings; Registered ParkParks and GardenGardens; Registered BattlefieldBattlefields; Conservation AreaAreas; and Registered Historic LandscapeLandscapes (Wales only)119.).103	
	5.8.49.5 There are heritage assets with archaeological interest that are not currently designated as scheduled monuments, but which are demonstrably have been demonstrated to be of equivalent significance. to designated heritage assets of the highest significance. These include: ● those that have yet to be formally assessed for designation; ●are:	
	Those that have been assessed as being designatable but which the the Secretary of State has recognised as being capable of being designated as a Scheduled Monument or Protected Wreck Site but has decided not to designate; and	
	Those that the Secretary of State has recognised as being of equivalent significance to Scheduled Monuments or Protected Wreck Sites but are incapable of being designated by virtue of being outside the scope of the Ancient Monuments and Archaeological Areas Act 1979. 5.8.5 The absence of designation for such heritage assets does not indicate lower significance. If the evidence before the IPC indicates to it that a nondesignated heritage asset of the type described in 5.8.4 may be affected by the proposed development then the heritage asset related legislation	
	5.9.6 There are also heritage assets with archaeological interest that have yet to be formally assessed by the Secretary of State, but which have potential to demonstrate equivalent significance to Scheduled Monuments or Protected Wreck Sites.	
	5.9.7 Non-designated heritage assets that have been recognised by the Secretary of State as being of equivalent significance to Scheduled Monuments or Protected Wreck Sites, or that have yet to be formally assessed but have archaeological interest ¹⁰⁴ and have potential to demonstrate equivalent significance to Scheduled Monuments or Protected Wreck Sites, should be considered subject to the same policy considerations as those that apply to designated heritage assets. 118 Save for the term "Designated Heritage Asset (covered in 5.8.3 above), these and other terms used in this section are defined in Annex 2 to PPS5, or any successor to it. The PPS5 Practice Guide contains	
	guidance on their interpretation. Additionally, part of the purpose of designating National Parks is in order to protect their cultural heritage and the conservation of	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	cultural heritage is an important consideration in all Areas of Outstanding Natural Beauty. 119 The issuing of licenses	
	5.9.8 The Secretary of State should also consider the impacts on other non-designated heritage assets (as identified either through the development plan making process by local authorities, including 'local listing', or through the application, examination and decision-making process). This is on the basis of clear evidence that such heritage assets have a significance that merits consideration in that process, even though those assets are of lesser significance than designated heritage assets.	
	5.9.9 Impacts on heritage assets specific to types of infrastructure are included in the technology specific NPSs. Applicant's assessment 5.9.10 The applicant should undertake an assessment of any likely significant heritage impacts of the proposed development as part of the EIA and describe these in the ES 91 5.8.6 The IPC ¹⁰² (see Section 4.2). This should also consider the impacts on other non-designated heritage assets, as identified either through the development plan making process (local listing) or through the IPC's decision making process on the basis of clear evidence that the assets have a heritage significance that meritsinclude consideration in its decisions, even though those assets are of lesser value than designated heritage assets. 5.8.7 Impacts on heritage assets specific to types of infrastructure are included in the	
	technology-specific NPSs. Applicant's assessment 5.8.8 of heritage assets above, at, and below the surface of the ground.	
	5.9.11 As part of the ES (see Section 4.2) the applicant should provide a description of the significance of the heritage assets affected by the proposed development and the, including any contribution of made by their setting to that significance. The level of detail should be proportionate to the importance of the heritage assets and no more than is sufficient to understand the potential impact of the proposal on thetheir significance of the heritage asset. As a minimum the applicant should have consulted the relevant Historic Environment Record120Record105 (or, where the development is in English or Welsh waters, English HeritageHistoric England or Cadw) and assessed the heritage assets themselves using expertise where necessary according to the proposed development's impact. 5.8-9.12 Where a site on which development site is proposed includes, or the available	
	evidence suggests it has the potential to include, heritage assets with an archaeological interest, the applicant should carry out appropriate desk-based assessment and, where such desk-based research is insufficient to properly assess the interest, a field evaluation. Where proposed development will affect the setting of a heritage asset, accurate representative visualisations may be necessary to explain the impact. ¹⁰⁶	
	5.8.109.13 The applicant should ensure that the extent of the impact of the proposed development on the significance of any heritage assets affected can be adequately understood from the application and supporting documents. IPC decision making 5.8.11 In considering applications, the IPCStudies will be required on those heritage	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	assets affected by noise, vibration, light and indirect impacts, the extent and detail of these studies will be proportionate to the significance of the heritage asset affected.	
	5.9.14 The applicant is encouraged, where opportunities exist, to prepare proposals which can make a positive contribution to the historic environment, and to consider how their scheme takes account of the significance of heritage assets affected. This can include, where possible:	
	 Enhancing, through a range of measures such a sensitive design, the significance of heritage assets or setting affected 	
	 Considering measures that address those heritage assets which are at risk, or which may become at risk, as a result of the scheme 	
	 Considering how visual or noise impacts can affect heritage assets, and whether there may be opportunities to enhance access to, or interpretation, understanding and appreciation of, the heritage assets affected by the scheme 	
	5.9.15 Careful consideration in preparing the scheme will be required on whether the impacts on the historic environment will be direct or indirect, temporary or permanent.	
	5.9.16 Applicants should look for opportunities for new development within Conservation Areas and World Heritage Sites, and within the setting of heritage assets, to enhance or better reveal their significance. Proposals that preserve those elements of the setting that make a positive contribution to the asset (or which better reveal its significance) should be treated favourably.	
	Secretary of State decision making	
	5.9.17 In determining applications, the Secretary of State should seek to identify and assess the particular significance of any heritage asset that may be affected by the proposed development, including by development affecting the setting of a heritage asset, (including assets whose setting may be affected by the proposed development), taking account of:	
	 evidence Relevant information provided with the application; and, where applicable, relevant information submitted during the examination of the application any designation records; 120 Historic Environment Records (HERs) are information services maintained by local authorities and, including those on the National Park Authorities with a view to providing access to resources relating to the historic environment of an area for public benefit and use. The County HERsHeritage List for England are available from the Heritage Gateway website at HERs can be 	
	obtained through the Historic Wales Portal at http://jura.rcahms.gov.uk/nms/start.jsp English Heritage and Cadw hold additional information about heritage assets in English or Welsh waters. This should also be consulted, where relevant.	
	~ -• the Historic landscape character records	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	~ The relevant Historic Environment Record, (s), and similar sources of information121; ● the heritage assets themselves; ● the outcome of consultations withinformation	
	~ Representations made by interested parties; and • during the examination process	
	 Expert advice, where appropriate, and when the need to understand the significance of the heritage asset demands it, expert advice. 	
	5.8.129.18 The Secretary of State must also comply with the requirements on listed buildings, conservation areas and scheduled monuments, set out in Regulation 3 of the Infrastructure Planning (Decisions) Regulations 2010.	
	5.9.19 In considering the impact of a proposed development on any heritage assets, the IPCSecretary of State should take into account the particular nature of the significance of the heritage assets and the value that they hold for this and future generations. This understanding should be used to avoid or minimise conflict between their conservation of that significance and proposals for development any aspect of the proposal.	
	5.8.139.20 The IPCSecretary of State should take into account the desirability of sustaining and, where appropriate, enhancing the significance of heritage assets, the contribution of their settings and the positive contribution they that their conservation can make to sustainable communities and, including to their quality of life, their economic vitality122vitality, and to the public's enjoyment of these assets107. The IPCSecretary of State should also take into account the desirability of the new development making a positive contribution to the character and local distinctiveness of the historic environment. The consideration of design should include scale, height, massing, alignment, materials, use and use. The IPC should have regard to any relevant local authority development plans or local landscaping (for example, screen planting).	
	5.9.21 When considering the impact report on the of a proposed development in respect of the factors set out in footnote 122. 5.8.14 There should be a presumption in	
	favour of theon the significance of a designated heritage asset, the Secretary of State should give great weight to the asset's conservation of designated heritage assets and the. The more significant important the designated heritage asset, the greater the presumption in favour weight should be. This is irrespective of its conservation should be. Once lost heritage assets cannot be replaced and their whether any potential harm amounts to substantial harm, total loss has a cultural, environmental, economic and social impact. Significance can be harmed or lost through, or less than substantial harm to its significance.	
	5.9.22 Any harm or loss of significance of a designated heritage asset (from its alteration or destruction of the heritage asset, or from development within its setting. Loss affecting any designated heritage asset) should require clear and convincing justification. Substantial harm to or loss of significance of a grade II listed building park or garden should be exceptional. Substantial harm to or loss of designated significance	

Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
of assets of the highest significance, including Scheduled Monuments; registered battlefieldsProtected Wreck Sites; Registered Battlefields; grade I and II* listed buildingsListed Buildings; grade I and II* registered parks Registered Parks and gardensGardens; and World Heritage Sites, should be wholly exceptional.	
5.8.155.9.23 The Secretary of State should give considerable importance and weight to the desirability of preserving all designated heritage assets. Any harmful impact on the significance of a designated heritage asset should be given significant weight when weighed against the public benefit of development, recognising that the 121 Guidance on the available sources of information greater the harm to the significance of the heritage asset the greater the justification will be needed for any loss.	
5.9.24 Where the proposed development will lead to substantial harm to (or total loss of significance of) a designated heritage asset the Secretary of State should refuse consent unless it can be demonstrated that the substantial harm to or loss of significance is necessary to achieve substantial public benefits that outweigh that harm or loss, or all of the following apply:	
 The nature of the heritage asset prevents all reasonable uses of the site No viable use of the heritage asset itself can be found in PPS5 Planning for the Historic Environment: Historic Environment Planning Practice Guide, March 2010, or any successor document. 122the medium term through appropriate marketing that will enable its conservation 	
 Conservation by grant-funding or some form of not for profit, charitable or public ownership is demonstrably not possible 	
 The harm or loss is outweighed by the benefit of bringing the site back into use 	
5.9.25 Where the proposed development will lead to less than substantial harm to the significance of the designated heritage asset, this harm should be weighed against the greater public benefits of the justification will be needed for any loss. Where the proposal, including, where appropriate securing its optimum viable use.	
5.9.26 The effect of an application will lead to substantial harm to or total loss of on the significance of a non-designated heritage asset should be taken into account in determining the IPC should refuse consent unless it can be demonstrated application. In weighing applications that directly or indirectly affect non-designated heritage assets, a balanced judgement will be required having regard to the substantial scale of any harm to or loss of and the significance is necessary in order to deliver substantial public	
benefits that outweigh that loss or harm. 5.8.16of the heritage asset.	
5.9.27 Not all elements of a Conservation Area or World Heritage Site or Conservation Area-will necessarily contribute to its significance. The policies set out in paragraphs 5.8.11 to 5.8.15 above apply to those elements that do contribute to the significance.	
which makes a positive contribution to the significance of the Conservation Area or World Heritage Site should be treated either as substantial harm or less than	
	of assets of the highest significance, including Scheduled Monuments; registered battlefieldsProtected Wreck Sites; Registered Battlefields; grade I and II* listed buildingsListed Buildings; grade I and II* registered parksRegistered Parks and gardensGardens; and World Heritage Sites, should be wholly exceptional. 5.8.155.9.23 The Secretary of State should give considerable importance and weight to the desirability of preserving all designated heritage assets. Any harmful impact on the significance of a designated heritage asset should be given significant weight when weighed against the public benefit of development, recognising that the 124 Guidance on the available sources of informationgreater the harm to the significance of the heritage asset the greater the justification will be needed for any loss. 5.9.24 Where the proposed development will lead to substantial harm to (or total loss of significance of) a designated heritage asset the Secretary of State should refuse consent unless it can be demonstrated that the substantial harm to or loss of significance is necessary to achieve substantial public benefits that outweigh that harm or loss, or all of the following apply: The nature of the heritage asset prevents all reasonable uses of the site No viable use of the heritage asset itself can be found in PPS5 Planning for the Historic Environment-Historic Environment-Planning Practice Guide, March-2010, or any successor document. 122the medium term through appropriate marketing that will enable its conservation Conservation by grant-funding or some form of not for profit, charitable or public ownership is demonstrably not possible The harm or loss is outweighed by the benefit of bringing the site back into use 5.9.25 Where the proposed development will lead to less than substantial harm to the significance of the designated heritage asset, this harm should be weighed against the greater public benefits of the justification will be needed for any-loss. Where the proposal, including, where appropriate sec

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	paragraph 5.9.25, as appropriate, taking into account the relative significance of the element affected and its contribution to the significance of the Conservation Area or World Heritage Site or Conservation Area as a whole.	
	5.8.179.28 Where loss there is evidence of significance deliberate neglect of any, or damage to, a heritage asset is justified on, the merits Secretary of the new development, the IPCS tate should consider imposing a condition on the consent or requiring the applicant to enternot take its deteriorated state into an obligation that will prevent the loss occurring until it is reasonably certain that the relevant part of the development is to proceed account in any decision. 108	
	5.8.189.29 When considering applications for development affecting the setting of a designated heritage asset, the IPC shouldSecretary of State should give considerable importance and weight to the desirability of preserving the setting such assets and treat favourably applications that preserve those elements of the setting that make a positive contribution to, or better reveal the significance of, the asset. When considering applications that do not do this, the IPCSecretary of State should weighgive significant weight to any negative effects, when weighing them against the wider benefits of the application. The greater the negative impact on the significance of the designated heritage asset, the greater the benefits that will be needed to justify approval. 109	
	Recording	
	5.8.199.30 A documentary record of our past is not as valuable as retaining the heritage asset and therefore the ability to record evidence of the asset is not an adequate mitigation of any harm and should not be a factor in deciding whether consent should be given. 5.8.209.31 Where the loss of the whole or a material part of a heritage asset's significance is justified, the IPCSecretary of State should require the developerapplicant to record and advance understanding of the significance of the heritage asset before it is lost wholly or in part. The extent of the requirement should be proportionate to the nature and level of the asset's significance. Developers Applicants should be required to publish this evidence and deposit copies of the reports with the relevant Historic Environment Record. They should also be required to deposit the archive generated in a local museum or other public depository willing to receive it.	
	Requirements	
	5.8.21 Where appropriate, the IPC should impose 9.32 The Secretary of State may add requirements on ato the development consent order to ensure that such workthis is carried outundertaken in a timely manner in accordance with a written scheme of investigation that meets the requirements of this Section and has been agreed in writing with the relevant Local Authority (or, where the development is in English waters, the Marine Management Organisation and English Heritage MMO and Historic England, or where it is in Welsh waters, the MMO and Cadw))) and that the completion of the exercise is properly secured 123. secured 110.	

Prage 126 of 156

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	5.9.33 Where the loss of significance of any heritage asset has been justified by the applicant on the merits of the new development and the significance of the asset in question, the Secretary of State should consider:	
	~ Imposing a requirement in the development consent order	
	~ Requiring the applicant to . 5.8.22 Where the IPC considersenter into an obligation	
	5.9.34 That will prevent the loss occurring until the relevant part of the development has commenced, or it is reasonably certain that the relevant part of the development is to proceed.	
	5.9.35 Where there to beis a high probability that a development site may include as yet undiscovered heritage assets with archaeological interest, the IPCSecretary of State should consider imposing requirements to ensure that appropriate procedures are in place for the identification and treatment of such assets discovered during construction.	
	¹⁰¹ Terms used in this section, including the term "Designated Heritage Asset" are defined in Annex 2 of the National Planning Policy Framework.	
	¹⁰² The setting of a heritage asset is the surroundings in which it is experienced. Its extent is not fixed and may change as the asset and its surroundings evolve. Elements of a setting may make a positive or negative contribution to the significance of an asset, and may affect the ability to appreciate that significance or may be neutral.	
	¹⁰³ The issuing of licences to undertake works on Protected Wreck Sites in English waters is the responsibility of the Secretary of State for Digital, Culture, Media and Sport and does not form part of development consents issued by the IPCSecretary of State for BEIS. In Wales it is the responsibility of Welsh Ministers. The issuing of licences for Protected Military Remains is the responsibility of the Secretary of State for Defence—.	
	¹⁰⁴ There will be archaeological interest in a heritage asset if it holds, or potentially may hold, evidence of past human activity worthy of expert investigation at some point.	
	105 Historic Environment Records (HERs) are information services maintained by local authorities and National Park Authorities with a view to providing access to comprehensive and dynamic resources relating to the historic environment of an area for public benefit and use. Details of Historic Environment Records in England are available from the Heritage Gateway website. For Wales, HERs can be obtained through the Historic Wales Portal at https://historic-wales-rcahmw.hub.arcgis.com/ English Heritage and Cadw hold additional information about heritage assets in English or Welsh waters. Historic England or Cadw should also be consulted, where relevant.	
	¹⁰⁶ Relevant guidance is given in the Historic England publication, The Setting of Heritage Assets https://historicengland.org.uk/images-books/publications/gpa3-setting-of-heritage-assets/	
	107 This can be by virtue of: heritage assets having an influence on the character of the environment and an area's sense of place; heritage assets having a potential to be a catalyst for regeneration in an area, particularly through leisure, tourism and economic development; heritage assets being a stimulus to inspire new development of imaginative and high quality design; the re-use of existing fabric, minimising waste; and and the mixed and flexible patterns of land use in historic areas that are likely to be, and remain, sustainable. greater	
	Historic Environment Good Practice Advice in Planning 2 provides further advice on managing significance in decision-taking in the historic environment, available online at: https://historicengland.org.uk/imagesbooks/publications/gpa2-managing-significance-in-decision-taking/	
	109 See the Infrastructure Planning (Decisions) Regulations 2010	
	423 Guidance on the contents of a written scheme of investigation is set out in the Practice Guide to PPS5 ¹¹⁰ Guidance on the contents of a written scheme of investigation is set out in Historic Environment Good Practice Advice in Planning: 2 – Managing Significance in Decision-Taking in the Historic Environment https://historicengland.org.uk/images-books/publications/gpa2-managing-significance-in-decision-taking/ or any successor documents.	

Policy

Land use including open space, green infrastructure and Green Belt Landscape and Visual

(Part 5.10 of EN-1)

Emerging Policy Text Detailing Changes

Introduction

5.910.1 The landscape and visual effects of energy projects will vary on a case by case basis according to the type of development, its location and the landscape setting of the proposed development. In this context, references to landscape should be taken as covering seascape and townscape where appropriate.

5.95.10.2 Among the features of energy infrastructure which are common to a number of different technologies, cooling towers and exhaust stacks and their plumes have the most obvious impact on landscape and visual amenity for thermal combustion generating stations. 111 Some natural draught cooling towers may be up 200 metres, although this would be exceptional. Visual impacts may be not just the physical structures but also visible steam plumes from cooling towers.

5.910.3 Other types of cooling system, for example direct throughput where water is abstracted, used for cooling then returned to source, or air-cooled condensers, will have less visible impacts as the structures are considerably lower than natural draught cooling towers and exhibit no visible steam plumes. Further, modern hybrid cooling systems – for example mechanical draught – do not generally exhibit visible steam plumes except in exceptional adverse weather conditions. These systems are normally considered as the "Best Available Techniques" (BAT). However, there may be losses of electricity output owing to the need for energy to operate hybrid cooling or air-cooled condenser systems.

5.910.4 When considering visual impacts of thermal combustion generating stations, the IPCSecretary of State should presume that the adverse impacts would be less if a hybrid or direct cooling system is used and that developersapplicants will use BAT. The IPCSecretary of State should therefore expect the applicant to justify BAT for the use of a cooling system that involves visible steam plumes or has a high visible structure, such as a natural draught cooling tower. ItThe Secretary of State should be satisfied that the application of modern hybrid cooling technology or other technologies is not reasonably practicable before giving consent to a development with natural draught cooling towers. Applicant's assessment

5.910.5 The applicant should carry out a landscape and visual assessment and report it in the ES. (See (see Section 4.2)). A number of guides have been produced to assist in addressing landscape issues125.issues. The landscape and 124visual assessment should include reference to any landscape character assessment and associated studies as a means of assessing landscape impacts relevant to the proposed project. The applicant's assessment should also take account of any relevant policies based on these assessments in local development documents in England and local development plans in Wales. For seascapes, applicants should consult the Seascape Character visual assessment should include reference to any landscape character assessment Assessment and associated studies as a means of assessing landscape impacts relevant to the proposed project. The applicant's assessment should also take account of any relevant policies based on these assessments in local

Assessment of Changes of Relevance

In accordance with proposed paragraph 5.10.8, the noise and light pollution from construction and operational activities on residential amenity and on sensitive locations, receptors and views has been assessed, and will be minimised through measures set out in the REAC, which include the preparation and implementation of a CEMP to manage impacts at the construction stage, and a sensitive lighting scheme will be finalised at the detailed design stage of development. This mitigation is secured through requirements in Schedule 2 of the DCO. Impacts on views are assessed within Chapter 9 (Landscape and Visual ImpactAmenity) of the ES (document reference 6.1.9APP-045) and within Table B.1 above of Appendix B.

In accordance with proposed paragraph 5.10.10, measures are proposed to enhance existing habitats within and outside of the Order Limits. Enhancement measures proposed are set out in the OLBS (document reference 6.6.1AS-094). A final strategy is secured through a requirement in Schedule 2 of the DCO, to be substantially in accordance with the OLBS. The delivery of enhancement works in the Off-site Habitat Provision Area is secured through a Section 106 Agreement. This legal agreement is detailed in the g.The Draft Heads of Terms for a Development Consent Obligation Section 106 Agreement (document reference 7.1AS-016) which is was submitted with the DCO Application.

As well as within the OLBS, enhancement is also discussed in Chapter 2 (Site and Project Description) of the ES (document reference 6.1.2APP-038) and, Chapter 9 (Landscape and Visual ImpactAmenity) of the ES (document reference 6.1.9APP-045).

Remaining policy changes proposed are minor. Therefore, the Applicant considers the assessment undertaken in respect of adopted policy EN-1, as set out in Table B.1 above of Appendix B, remains relevant to the remaining proposed policy text.

To note, The Landscape Institute and Institute of Environmental Management and Assessment: Guidelines for Landscape and Visual Impact Assessment (2013, 3rd edition); Landscape and Seascape Character Assessments has been used to inform the assessment.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	development documents in EnglandMarine Plan Seascape Character Assessments, and local development plans in Wales.any successors to them. 113	
	5.910.6 The applicant's assessment should include the effects during construction of the project and the effects of the completed development and its operation on landscape components and landscape character.	
	5.910.7 The assessment should include the visibility and conspicuousness of the project during construction and of the presence and operation of the project and potential impacts on views and visual amenity. This should include light pollution effects, including on local amenity, and nature conservation.	
	5.10.8 The assessment should also demonstrate how noise and light pollution from construction and operational activities on residential amenity and on sensitive locations, receptors and views, will be minimised.	
	#PCSecretary of State decision making	
	Landscape impact	
	5.10.9.8 Landscape effects of the project depend on the existing character of the local landscape, its current quality, how highly it is valued and its capacity to accommodate change. All of these factors need to be considered in judging the impact of a project on landscape. Virtually all nationally significant energy infrastructure projects will have effects on the landscape. Projects need to be designed carefully, taking account of the potential impact on the landscape. Having regard to siting, operational and other relevant constraints the aim should be to minimise harm to the landscape, providing reasonable mitigation where possible and appropriate.	
	5.10.10 Applicants should consider how landscapes can be enhanced using landscape management plans, as this will help to enhance environmental assets where they contribute to landscape and townscape quality.	
	Development proposed within nationally designated landscapes	
	5.9.910.11 National Parks, the Broads and AONBs have been confirmed by the Government as having the highest status of protection in relation to landscape and scenic beauty. Each of these designated areas has specific statutory purposes which help ensure their continued protection and which the IPCSecretary of State should have regard to in its decisions126.their decisions. 114 The conservation of the natural beauty of the landscape and countryside should be given substantial weight by the IPC in deciding on applications countryside should be given substantial weight by the Secretary of State in deciding on applications for development consent in these areas.	
	5.10.12 Nevertheless, the Secretary of State may grant development consent in these areas in exceptional circumstances. The development should be demonstrated to be in the public interest127 interest115 and consideration of such applications should include an assessment of:	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	 The need for the development, including in terms of national considerations128considerations¹¹⁶, and the impact of consenting or not consenting it upon the local economy; 	
	The cost of, and scope for, developing elsewhere outside the designated area or meeting the need for it in some other way, taking account of the policy on alternatives set out in Section 4.4; and ●2	
	 Any detrimental effect on the environment, the landscape and recreational opportunities, and the extent to which that could be moderated. 	
	5.9.1110.13 The IPCSecretary of State should ensure that any projects consented in these designated areas should be carried out to high environmental standards, including through the application of appropriate requirements where necessary. Developments outside nationally designated areas which might affect them	
	5.9.1210.14 The duty to have regard to the purposes of nationally designated areas also applies when considering applications for projects outside the boundaries of these areas which may have impacts within them. The aim should be to avoid compromising the purposes of designation and such projects should be designed sensitively given the various siting, operational, and other relevant constraints. This should include projects in England which may have impacts on National Scenic Areas in Scotland.	
	5.9.1310.15 The fact that a proposed project will be visible from within a designated area should not in itself be a reason for refusing consent. Developments in other areas	
	5.9.1410.16 Outside nationally designated areas, there are local landscapes that may be highly valued locally and protected by local designation. Where a local development document in England or a local development plan in Wales has policies based on landscape or waterscape character assessment, these should be paid particular attention. However, local landscape designations should not be used in themselves to refuse consent, as this may unduly restrict acceptable development.	
	5.9.1510.17 The scale of such projects means that they will often be visible within many miles of the site of the proposed infrastructure. The IPC should judge whether The Secretary of State should judge whether any adverse impact on the landscape would be so damaging that it is not offset by the benefits (including need) of the project.	
	5.9.1610.18 In reaching a judgment, the IPCSecretary of State should consider whether any adverse impact is temporary, such as during construction, and/or whether any adverse impact on the landscape will be capable of being reversed in a timescale	
	that the IPC considers reasonable. 127 PPS7 applies a public interest test for major development in these designated areas. 128 National considerations should be understood to include the national need for the infrastructure as set out in Part 3 of this NPS and the contribution of the infrastructure to the national economy. 5.9.17 The IPCSecretary of State considers reasonable.	
	5.10.19 The Secretary of State should consider whether the project has been designed carefully, taking account of environmental effects on the landscape and siting,	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	operational and other relevant constraints, to minimise harm to the landscape, including by reasonable mitigation.	
	<u>Visual impact</u>	
	5.9.1810.20 All proposed energy infrastructure is likely to have visual effects for many receptors around proposed sites. The IPCSecretary of State will have to judge whether the visual effects on sensitive receptors, such as local residents, and other receptors, such as visitors to the local area, outweigh the benefits of the project. Coastal areas are particularly vulnerable to visual intrusion because of the potential high visibility of development on the foreshore, on the skyline and affecting views along stretches of undeveloped coast.	
	5.9.1910.21 It may be helpful for applicants to draw attention, in the supporting evidence to their applications, to any examples of existing permitted infrastructure they are aware of with a similar magnitude of impact on sensitive receptors. This may assist the IPCSecretary of State in judging the weight itthey should give to the assessed visual impacts of the proposed development.	
	5.9.2010.22 The IPCSecretary of State should ensure applicants have taken into account the landscape and visual impacts of visible plumes from chimney stacks and/or the cooling assembly. It may needbe necessary to attach requirements to the consent requiring the incorporation of particular design details that are in keeping with the statutory and technical requirements.	
	Mitigation	
	5.9.2110.23 Reducing the scale of a project can help to mitigate the visual and landscape effects of a proposed project. However, reducing the scale or otherwise amending the design of a proposed energy infrastructure project may result in a significant operational constraint and reduction in function — for example, the electricity generation output. There may, however, be exceptional circumstances, where mitigation could have a very significant benefit and warrant a small reduction in function. In these circumstances, the IPCSecretary of State may decide that the benefits of the mitigation to reduce the landscape and/or visual effects outweigh the marginal loss of function.	
	5.9.225.10.24 Within a defined site, adverse landscape and visual effects may be minimised through appropriate siting of infrastructure within that site, design including colours and materials, and landscaping schemes, depending on the size and type of the proposed project. Materials and designs of buildings should always be given careful consideration.	
	5.9.2310.25 Depending on the topography of the surrounding terrain and areas of population it may be appropriate to undertake landscaping off site. For example, filling in gaps in existing tree and hedge lines would mitigate the impact when viewed from a more distant vista.	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	111 Cooling towers and exhaust stacks can form part of projects covered by EN-2, EN-3 and EN-6. Other features of energy infrastructure which can be similarly prominent are associated with particular technologies and so are considered in the technology-specific NPSs (see e.g. Section 2.811 of EN-5). 425	
	112 The Landscape Institute and Institute of Environmental Management and Assessment (2002, 2nd edition): Guidelines for Landscape and Visual Impact Assessment; and Land Use Consultants (2002): (2013, 3rd edition); Landscape and Seascape Character Assessment — Guidance for England Assessments — https://www.gov.uk/guidance/landscape-and-Scotland:-seascape-character-assessments; Countryside Council for Wales/Cadw (2007) Guide to Good Practice on Using the Register of Landscapes of Historic Interest in Wales in the Planning and Development Process-; or any successor documents.	
	https://www.gov.uk/government/publications/seascapecharacter-assessments-identify-and-describe-seascape-types; Marine plan seascape character assessments: https://www.gov.uk/government/publications/seascape-assessments-for-development consent in these-north-west-south-east-southwest-marine-plan-areas-5.9.10 Nevertheless, the IPC may grant development consent in these-mmo1134 and https://www.gov.uk/government/publications/seascape-assessment-forthe-south-marine-plan-areas-in-exceptional circumstances. The development should be demonstrated to be 126-mmo-1037 and https://www.gov.uk/government/publications/east-marine-plan-areasseascape-character-assessment	
	114 For an explanation of the duties which will apply to the IPC Secretary of State, see 'Duties on relevant authorities to have regard to the purposes of National Parks, AONBs and the Norfolk and Suffolk Broads' at http://www.defra.gov/https://landscapesforlife.org.uk/rural/documents/protected/npaonb-duties-guideapplication/files/2015/8928/8605/Duty_of_Regard_Guide_Defra_2005.pdf 115 Section 15 of the NPPF applies a public interest test for major development in these designated areas. 116 National considerations should be understood to include the national need for the infrastructure as set out in Part 3 of this NPS and the contribution of the infrastructure to the national economy.	
Land use including open space, green infrastructure & Green Belt Noise and Vibrations (Part 5.11 of EN-1)	Introduction 5.4011.1 An energy infrastructure project will have direct effects on the existing use of the proposed site and may have indirect effects on the use, or planned use, of land in the vicinity for other types of development. Given the likely locations of energy infrastructure projects there may be particular effects on open space-129space-117 including green infrastructure 130.infrastructure 118. 5.4011.2 The Government'sgovernment's policy is to ensure there is adequate provision of high-quality open space (including green infrastructure) and sports and recreation facilities to meet the needs of local communities. Open spaces, sports and recreational facilities all help to underpin people's quality of life and have a vital role to play in promoting healthy living. Green-infrastructure-in-particular Well designed and managed green infrastructure in particular, provides multiple benefits at a range of scales. It can contribute to health, wellbeing, biodiversity recovery, absorb surface water, cleanse pollutants and absorb noise and reduce high temperatures. It will also play an increasingly important role in mitigating or adapting to the impacts of climate change. 5.40The provision and enhancement of green infrastructure can improve air	Proposed EN-1 text relating to land use emphasises the benefits of well-designed and managed greenspace and encourages Applicants to consider how new infrastructure can be delivered, or existing green infrastructure can be enhanced. As set out in the row above, landscape enhancement measures, including green infrastructure, will be deliver by the Applicant, both within and outside of the Order Limits. On site provision will be located within the Habitat Provision Area and is secured via a requirement to the DCO (through the delivery of a final Biodiversity and Landscape Strategy). Off-site measures will be located in the Off-Site Habitat Provision Area and secured via the Section 106 Agreement (based on the Draft Heads of Terms for a Section 106 Agreement (APP-197)). Contamination has been assessed at Chapter 11 (Ground Conditions) of the ES (document reference 6.1.11APP-047) and concludes that there is likely to be no significant adverse effects with respect of contamination on identified sensitive receptors. In accordance with proposed paragraph 5.11.8, should contamination be present, opportunities for remediation will be considered where possible. The Soils Handling Management Plan ('SHMP') is will be secured through the CEMP and will include measures to reduce impacts on soil through handling during the construction process.
	quality, particularly in urban areas. Applicants are therefore encouraged to consider how new green infrastructure can be provided, or how existing green infrastructure can	Whilst new public access cannot be provided to the Power Station Site given the nature of the operations, in accordance with proposed paragraph 5.11.23, the Proposed Scheme

be enhanced, as part of their application.

countryside

5.11.3 Although the re-use of previously developed land for new development can

make a major contribution to sustainable development by reducing the amount of

seeks to maintain the quality and use of all PRoWs. As detailed in Appendix BTable 1

Offsite Habitat Provision Area for approximately two weeks, in order to enable habitat

above, it is proposed to temporarily 'stop up' PRoW path 35.6/6/1 which runs through the

Policy Emerging Policy Text Detailing Changes

and undeveloped greenfield land that needs to be used, it may not be possible for many forms of energy infrastructure.

5.4011.4 Green Belts, defined in a local authority's development plan131plan119, are situated around certain cities and large built-up areas. The fundamental aim of Green Belt policy is to prevent urban sprawl by keeping land permanently open; the most important attribute of Green Belts is their openness. Green Belt land can play a positive role in providing access to sport and recreation facilities or access to the open countryside. For further information on the purposes of Green Belt policy see PPG2chapter 13 of the NPPF, or any successor to it.

Applicant's assessment

5.4011.5 The ES (see Section 4.2) should identify existing and proposed120 land uses near the project, any effects of replacing an existing development or use of the site with the proposed project or preventing a development or use on a neighbouring site from continuing. Applicants should also assess any effects of precluding a new development or use proposed in the development plan.

5.4011.6 Applicants will need to consult the local community on their proposals to build on open space, sports or recreational buildings and land. Taking account of the consultations, applicants should consider providing new or additional open space including green infrastructure, sport or recreation

facilities, to substitute for any losses as a result of their proposal. Applicants should use any up-to-date local authority assessment or, if there is none, provide an independent assessment to show whether the existing open space, sports and recreational buildings and land is surplus to requirements.

5.4011.7 During any pre-application discussions with the applicant the LPA should identify any concerns it has about the impacts of the application on land use, having regard to the development plan and relevant applications and including, where relevant, whether it agrees with any independent assessment that the land is surplus to requirements.

5.4011.8 Applicants should seek to minimise impacts on the best and most versatile agricultural land (defined as land in grades 1, 2 and 3a of the Agricultural Land Classification) and preferably use land in areas of poorer quality (grades 3b, 4 and 5) except where this would be inconsistent with other sustainability considerations. Applicants should also identify any effects and seek to minimise impacts on soil quality taking into account any mitigation measures proposed. For developments on previously developed land, applicants should ensure that they have considered the risk posed by land contamination. 5.10, and where contamination is present, applicants should consider opportunities for remediation where possible. Applicants are encouraged to develop and implement a Soil Management Plan which could help minimise potential land contamination.

Assessment of Changes of Relevance

provision related works to be undertaken. PRoW (AIRMF03) which runs east west to the north of the OHL1 may also need to be temporarily diverted during the construction phase.

In addition, construction plant and equipment located in works areas adjacent to the PRoWs may have a temporary impact on the amenity value of the paths. However, such impacts will be short term, and it is considered that the mitigation measures put forward in the REAC (AS-092) and to be included in the CEMP secured by a requirement to the DCO are acceptable to mitigate impact sufficiently.

The Applicant considers that the remaining draft EN-1 text relating to land use is suitably assessed in the assessment of adopted EN-1 text in Table B.1 above of Appendix B.

Drax Bioenergy with Carbon Capture and Storage
Page 133 of 156

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	5.11.9 Applicants should safeguard any mineral resources on the proposed site as far as possible, taking into account the long-term potential of the land use after any future decommissioning has taken place.	
	5.4011.10 The general policies controlling development in the countryside apply with equal force in Green Belts but there is, in addition, a general presumption against inappropriate development within them. Such development should not be approved except in very special circumstances. Applicants should therefore determine whether their proposal, or any part of it, is within an established Green Belt and if it is, whether their proposal may be inappropriate development within the meaning of Green Belt policy (see paragraph 5.40.4711.16 below).	
	5.4011.11 However, infilling or redevelopment of major developed sites in the Green Belt, if identified as such by the local planning authority, may be suitable for energy infrastructure. It may help to secure jobs and prosperity without further prejudicing the Green Belt or offer the opportunity for environmental improvement. Applicants should refer to relevant criteria133criteria121 on such developments in Green Belts.	
	5.4011.12 An applicant may be able to demonstrate that a particular type of energy infrastructure, such as an underground pipeline, which, in Green Belt policy terms, may be considered as an "engineering operation" rather than a building is not in the circumstances of the application inappropriate development. It may also be possible for an applicant to show that the physical characteristics of a proposed overhead line development or wind farm are such that it has no adverse effects which conflict with the fundamental purposes of Green Belt designation. IPC decision making 5.10.13 Where the project conflicts with a proposal in a development plan, the IPC should take account of the stage which the development plan document in England or local development plan in Wales has reached in deciding what weight to give to the plan for the purposes of determining the planning significance of what is replaced, prevented or	
	precluded. The closer the development plan document in England or local development plan in Wales is to being adopted by the LPA, the greater weight which can be attached to it. 5.10.14	
	The IPCSecretary of State decision making 5.11.13 The Secretary of State should not grant consent for development on existing open space, sports and recreational buildings and land unless an assessment has been undertaken either by the local authority or independently, which has shown the open space or the buildings and land to be surplus to requirements or the IPCSecretary of State determines that the benefits of the project (including need), outweigh the potential loss of such facilities, taking into account any positive proposals made by the	
	applicant to provide new, improved or compensatory land or facilities. The loss of playing fields should only be allowed where applicants can demonstrate that they will be replaced with facilities of equivalent or better quantity or quality in a suitable location.	
	5.10.1511.14 The IPCSecretary of State should ensure that applicants do not site their scheme on the best and most versatile agricultural land without justification. ItLittle	

Page 134 of 156

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	weight should give little weightbe given to the loss of poorer quality agricultural land (in grades 3b, 4 and 5), except in areas (such as uplands) where particular agricultural practices may themselves contribute to the quality and character of the environment or the local economy.	
	5.40.1611.15 In considering the impact on maintaining coastal recreation sites and features, the IPCSecretary of State should expect applicants to have taken advantage of opportunities to maintain and enhance access to the coast. In doing so the IPCSecretary of State should consider the implications for development of the creation of a continuous signed and managed route around the coast, as provided for in the Marine and Coastal Access Act 2009. 5.40.4711.16 When located in the Green Belt, energy infrastructure projects are likely to comprise 'inappropriate development' 134. development'.	
	122 Inappropriate development is by definition harmful to the Green Belt and the general planning policy presumption against it applies with equal force in relation to major energy infrastructure projects. The IPCSecretary of State will need to assess whether there are very special circumstances to justify inappropriate development. Very special circumstances will not exist unless the harm by reason of inappropriateness, and any other harm, is clearly outweighed by other considerations. In view of the presumption against inappropriate development, the IPCSecretary of State will attach substantial weight to the harm to the Green Belt when considering any application for such development while taking account, in relation to renewable and linear infrastructure, of the extent to which its physical characteristics are such that it has limited or no impact on the fundamental purposes of Green Belt designation. 134 Referred to in section 3 of PPG2: Green Belts.	
	5.40.1811.17 In Wales, 'green wedges' may be designated locally123 locally123. These enjoy the same protection as Green Belt in Wales and the IPCSecretary of State should adopt a similar approach. Green wedges give the same protection as Green Belt in Wales. Green wedges do not convey the same level of permanence of a Green Belt and should be reviewed by the local authority as part of the development plan review process. As with Green Belt, there is a presumption against inappropriate development and the IPCSecretary of State should assess whether there are very special circumstances to justify any proposed inappropriate development.	
	Mitigation 5.40.1911.18 Although in the case of much energy infrastructure there may be little that can be done to mitigate the direct effects of an energy project on the existing use of the proposed site (assuming that some at least of that use can still be retained post project construction) applicants should nevertheless seek to minimise these effects and the effects on existing or planned uses near the site by the application of good design principles, including the layout of the project₁ and the protection of soils during construction.	
	5.40.2011.19 Where green infrastructure is affected, the IPCSecretary of State should consider imposing requirements to ensure the functionality and connectivity of the	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	green infrastructure network is maintained in the vicinity of the development and that any necessary works are undertaken, where possible, to mitigate any adverse impact and, where appropriate, to improve that network and other areas of open space including appropriate access to National Trails and other public rights of way and new coastal access routes.	
	5.40.2111.20 The IPCSecretary of State should also consider whether mitigation of any adverse effects on green infrastructure and other forms of open space is adequately provided formitigated or compensated by means of any planning obligations, for example exchange land and provide for appropriate management and maintenance agreements. Any exchange land should be at least as good in terms of size, usefulness, attractiveness and quality, and, where possible, at least as accessible. accessibility. Alternatively, where Sections 131 and 132 of the Planning Act 2008 apply, replacement land provided under those sections will need to conform to the requirements of those sections.	
	5.10.2211.21 Where a proposed development has an impact upon a Mineral Safeguarding Area (MSA), the IPCSecretary of State should ensure that appropriate mitigation measures have been put in place to safeguard mineral resources.	
	5.40.2311.22 Where a project has a sterilising effect on land use (for example in some cases under transmission lines) there may be scope for this to be mitigated through, for example, using or incorporating the land for nature conservation or wildlife corridors or for parking and storage in employment areas.	
	5.40.2411.23 Public Rights of way, National Trails and other rights of access to land are important recreational facilities for example for walkers, cyclists and horse riders. The IPCSecretary of State should expect applicants to take appropriate mitigation measures to address adverse effects on coastal access, National Trails—and, other rights of way. Where this is not the case the IPC should—and open access land and, where appropriate, to consider what appropriate opportunities there may be to improve or create new access. In considering revisions to an existing right of way, consideration should be given to the use, character, attractiveness and convenience of the right of way. The Secretary of State should consider whether the mitigation measures put forward by an applicant are acceptable and whether requirements might be attached to or other provisions in respect of these measures should be included in any grant of development consent.	
	117 Open space is defined in the Town and Country Planning Act 1990 as land laid out as a public garden, or used for the purposes of public recreation, or land which is a disused burial ground. However, in applying the policies in this section, open space should be taken to mean all open space of public value, including not just land, but also areas of water such as rivers, canals, lakes and reservoirs which offer important opportunities for sport and recreation and can also act as a visual amenity.	
	¹¹⁸ Green infrastructure is a network of multi-functional green spaces, both new and existing, both rural and urban, which supports the natural and ecological processes and is integral to the health and quality of life of sustainable communities.	
	¹¹⁹ Or else so designated under The Green Belt (London and Home Counties) Act 1938.	
	¹²⁰ For example, where a planning application has been submitted.	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	 See Section 13 of the NPPF, or any successor to it. Referred to in paragraph 147 of section 13 of the NPPF. See Managing Settlement Form - Green Belts and Green Wedges, in Planning Policy Wales (Edition 11, February 2021), or any successor to it https://gov.wales/sites/default/files/publications/2021-02/planning-policywales-edition-11 0.pdf¹³³-See Annex C to Planning Policy Guidance 2: Green belts, or any successor to it. 	
Socio-economics Noise and Vibration (Part 5.12 of EN-1)	Introduction 5.4412.1 Excessive noise can have wide-ranging impacts on the quality of human life, health (for example owing to annoyance or sleep disturbance) and use and enjoyment of areas of value such as quiet places and areas with high landscape quality. The The Government's policy on noise is set out in the Noise Policy Statement for England196.England. 124 It promotes good health and good quality of life through effective noise management. Similar considerations apply to vibration, which can also cause damage to buildings. In this section, in line with current legislation, references to "noise" below apply equally to assessment of impacts of vibration. 5.4412.2 Noise resulting from a proposed development can also have adverse impacts on wildlife and biodiversity. Noise effects of the proposed development on ecological receptors should be assessed by the IPCSecretary of State in accordance with the Biodiversity and Geological Conservation section of this NPS. 5.44This should consider underwater noise and vibration especially for marine developments. 5.12.3 Factors that will determine the likely noise impact include: • The inherent operational noise from the proposed development, and its characteristics; • The proximity of the proposed development to noise sensitive premises (including residential properties, schools and hospitals) and noise sensitive areas (including certain parks and open spaces); • The proximity of the proposed development to duiet places and other areas that are particularly valued for their acoustic environmentsoundscape or landscape quality; and • The proximity of the proposed development to designated sites where noise may have an adverse impact on protected species or other wildlife. Applicant's assessment 5.4412.4 Where noise impacts are likely to arise from the proposed development, the applicant should include the following in the noise assessment: • A description of the noise generating aspects of the development proposal leading to noise impacts, including the identif	The Proposed Scheme accords with the draft NPS text. Any additional requirements proposed are addressed in Chapter 7 (Noise and Vibration) of the ES (APP-043document reference 6.1-7) and in the assessment of adopted EN-1 policy relating to noise and vibration which is set out in Table B-1 above of Appendix B. In the context of proposed paragraph 5.12.4, whilst the assessment does not specifically assess different times of year, it does consider the potential impacts on outdoor sensitive receptors and with open windows, so can be assumed that in the summer months when windows are most likely to be open—and would therefore which would be most sensitive to noise, the assessment for the Proposed Scheme would be applicable for different times of year. Chapter 7 of the ES concludes that no significant environmental effects for noise have been identified. Whilst the NPSE-Noise Policy Statement for England ('NPSE') notes that "it acknowledged that further research is required to increase our understanding of what may constitute a significant adverse impact on health and quality of life from noise", it can be reasonably assumed that no significant environmental effects would mean no significant impacts upon health and well-being in the context of proposed paragraph 5.12.4. In the context of proposed paragraph 5.12.8, the Proposed Scheme has been located and designed with regard to potential noise impacts in the context of planning considerations in addition to other environmental permits and responsibilities of Drax Power Ltd. Further detail is provided in the Other Consents and Licenses document (APP-035document reference-5.6). The required noise levels will be achieved through mitigation defined during detailed design. This may include acoustic enclosures or certain cladding. Design principles and the colour palette for the exterior of major buildings / structures is established in the Design Framework (APP-195) and will ensure any containment for noise mitigation purposes follows these principles in accordance wi

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	 A prediction of how the noise environment will change with the proposed development; 	
	 In the shorter term, such as during the construction period; In the longer term, during the operating life of the infrastructure; At particular times of the day, evening and night (and weekends) as appropriate. and at different times of year 	
	 An assessment of the effect of predicted changes in the noise environment on any noisesensitive premises receptors, including an assessment of any likely impact on health and well-being where appropriate, and noisesensitive areas; and 	
	 If likely to cause disturbance, an assessment of the effect of underwater or subterranean noise 	
	 Measures to be employed in mitigating noise. The effects of noise - applicants should consider using best available techniques to reduce noise impacts 	
	5.12.5 The nature and extent of the noise assessment should be proportionate to the likely noise impact.	
	5.41.512.6 The noise impact of ancillary activities associated with the development, such as increased road and rail traffic movements, or other forms of transportation, should also be considered.	
	5.41.612.7 Operational noise, with respect to human receptors, should be assessed using the principles of the relevant British Standards137Standards125 and other guidance. Further information on assessment of particular noise sources may be contained in the technology- specific NPSs. In particular, for renewables (EN-3) and electricity networks (EN-5) there is assessment guidance for specific features of those technologies. For the prediction, assessment and management of construction noise, reference should be made to any relevant British Standards 138 126 and other guidance which also give examples of mitigation strategies.	
	5.11.75.12.8 Some noise impacts will be controlled through environmental permits and parallel tracking is encouraged where noise impacts determined by an environmental permit interface with planning issues (i.e., physical design and location of development). The applicant should consult EA and Natural England (NE), /or the Countryside Council for Wales (CCW), SNCB, as necessary, and in particular with regard to assessment of noise on protected species or other wildlife. The results of any noise surveys and predictions may inform the ecological assessment. The seasonality of potentially affected species in nearby sites may also need to be taken into account.	
	IPCSecretary of State decision making	
	5.41.812.9 The project should demonstrate good design through selection of the quietest or most acceptable cost-effective plant available; containment of noise within buildings wherever possible, taking into account any other adverse impacts that such containment might cause e.g. on landscape and visual impacts; optimisation of plant	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	layout to minimise noise emissions; and, where possible, the use of landscaping, bunds or noise barriers to reduce noise transmission. 5.11.9 The IPC	
	5.12.10 The Secretary of State should not grant development consent unless it is satisfied that the proposals will meet the following aims:	
	~ •Avoid significant adverse impacts on health and quality of life from noise;	
	 Mitigate and minimise other adverse impacts on health and quality of life from noise; and 	
	 Where possible, contribute to improvements to health and quality of life through the effective management and control of noise. 137 For example BS 4142: BS 6472 and BS 8233. 138 For example BS 5228. 	
	5.12.11.10 When preparing the development consent order, the IPCSecretary of State should consider including measurable requirements or specifying the mitigation measures to be put in place to ensure that noise levels do not exceed any limits specified in the development consent. Mitigation 5.11.11 The IPCThese requirements or mitigation measures may apply to the construction, operation, and decommissioning of the energy infrastructure development.	
	Mitigation	
	5.12.12 The Secretary of State should consider whether mitigation measures are needed both for operational and construction noise over and above any which may form part of the project application. In doing so the IPCSecretary of State may wish to impose requirements. Any such requirements should take account of the guidance set out in Circular 11/95 (see Section 4.1)the NPPF or any successor to it.	
	5.41.12.13 Mitigation measures may include one or more of the following:	
	 Engineering: reduction of noise at point of generation and containment of noise generated; 	
	 Lay-out: adequate distance between source and noise-sensitive receptors; incorporating good design to minimise noise transmission through screening by natural barriers, or other buildings; and 	
	 Administrative: restricting activities allowed on the site; specifying acceptable noise limits; and taking into account seasonality of wildlife in nearby designated sites. 	
	5.11.1312.14 In certain situations, and only when all other forms of noise mitigation have been exhausted, it may be appropriate for the IPCSecretary of State to consider	
	requiring noise mitigation through improved sound insulation to dwellings. 136_http 124 https://www.defra.gov.uk/environment/qualitygovernment/publications/noise/npse/-policy-statement-forengland	
	¹²⁵ For example BS 4142, BS 6472 and BS 8233.	
	¹²⁶ For example BS 5228. bunds or noise barriers to reduce noise transmission. A development must be undertaken in accordance with statutory requirements for noise. Due regard must be given to the relevant sections of the Noise Policy Statement for England, the NPPF, and the government's associated planning guidance on noise.	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
Traffic and Transport Socio-economic Impacts (Part 5.13 of EN-1)	Introduction 5.4213.1 The construction, operation and decommissioning of energy infrastructure may have socio-economic impacts at local and regional levels. Parts 2 and 3 of this NPS set out some of the national level socio-economic impacts.	In accordance with proposed paragraph 5.13.2, the Proposed Scheme contributes to sustainable economic growth. Drax Power Station would act as an anchor project for Zero Carbon Humber, protecting and creating tens of thousands of jobs, and kickstarting a new green industry for the region.
	Applicant's assessment 5.4213.2 Where the project is likely to have socio-economic impacts at local or regional levels, the applicant should undertake and include in their application an assessment of these impacts as part of the ES (see Section 4.2). 5.4213.3 This assessment should consider all relevant socio-economic impacts, which may include: - The creation of jobs and training opportunities; Applicants may wish to provide information on the sustainability of the jobs created, including where they will help to develop the skills needed for the UK's transition to Net Zero - The contribution to the development of low-carbon industries at the local and regional level as well as nationally - The provision of additional local services and improvements to local infrastructure, including the provision of educational and visitor facilities; effects on tourism; - Any indirect beneficial impacts for the region hosting the infrastructure, in	A report published in 2021 (Coalition for Negative Emissions, 2021) identifies the estimates that between 50,000 and 100,000 total new jobs could be created in the UK by 2050 by scaling up negative emissions projects to achieve the 1.5°C pathway need, based on the CCC's Sixth Carbon Budget. The report recognises that carbon removal presents a viable path for job protection, as 70 to 90 per cent of the skills required by a STEM oil and gas professional are highly relevant to those required in engineered removal. It also notes that engineered removal is likely to occur in clusters that have historically experienced lower economic growth and where current jobs have higher transition risks, such as in the Humber. In doing so, the UK can develop engineering and construction capabilities around CCS delivery, which would create additional jobs and add economic value. In line with proposed paragraph 5.13.5, the Applicant commits to promoting the use of local suppliers and contractors through a Local Employment Scheme which will be delivered via a development consent obligation. This is set out in detail in Section 4.1 of theis Planning Statement (APP-032). The obligation is will be secured through a Section 106 Agreement and is set out in the Heads of Terms for Section 106 Agreement (AS-016document
	particular in relation to use of local support services and supply chains Effects on tourism The impact of a changing influx of workers during the different construction, operation and decommissioning phases of the energy infrastructure. This could change the local population dynamics and could alter the demand for services and facilities in the settlements nearest to the construction work (including community facilities and physical infrastructure such as energy, water, transport and waste). There could also be effects on social cohesion depending on how populations and service provision change as a result of the development; and Cumulative effects — if development consent were to be granted to for a number of projects within a region and these were developed in a similar timeframe, there could be some short-term negative effects, for example a potential shortage of construction workers to meet the needs of other industries and major projects within the region. 5.125.13.4 Applicants should describe the existing socio-economic conditions in the areas surrounding the proposed development and should also refer to how the development's socio-economic impacts correlate with local planning policies. 5.4213.5 Socio-economic impacts may be linked to other impacts, for example the visual impact of a development is considered in Section 5.910 but may also have an impact on tourism and local businesses. IPCApplicants are encouraged, where possible, to ensure local suppliers are considered in any supply chain.	reference 7.1) submitted with the DCO Application. The Local Employment Scheme will be submitted for approval prior to commencement and will include the use of local suppliers and contractors and developing opportunities for local people to access training opportunities. This also accords with proposed paragraph 5.13.9, which states that the SoS "may wish to include a requirement that specifies the approval by the local authority of an employment and skills plan detailing arrangements to promote local employment and skills development opportunities, including apprenticeships, education, engagement with local schools and colleges and training programmes to be enacted". In line with proposed paragraph 5.13.6, Chapter 16 (Population, Health and Socioeconomics) of the ES (document reference 6.1.16APP-052) concludes that adverse accommodation impacts are only anticipated as a cumulative effect of the Proposed Scheme and other projects, and that that regardless, effects anticipated are not significant. As such, the Applicant does not consider that accommodation strategies are a relevant requirement for the Proposed Scheme to address. The remaining text proposed in part 5.13 of draft EN-1 has been addressed within Table B-1 above of Appendix B, relating to the existing adopted EN-1 policy.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	5.13.6 Applicants should also consider developing accommodation strategies where appropriate, especially during construction and decommissioning phases, that would include for the need to provide temporary accommodation for construction workers if required.	
	Secretary of State decision making	
	5.12.613.7 The IPCSecretary of State should have regard to the potential socio- economic impacts of new energy infrastructure identified by the applicant and from any other sources that the IPCSecretary of State considers to be both relevant and important to its decision. 5.12.75.13.8 The IPCSecretary of State may conclude that limited weight is to be given to assertions of socio-economic impacts that are not supported by evidence (particularly in view of the need for energy infrastructure as set out in this NPS).	
	5.42.813.9 The IPCSecretary of State should consider any relevant positive provisions the developerapplicant has made or is proposing to make to mitigate impacts (for example through planning obligations) and any legacy benefits that may arise as well as any options for phasing development in relation to the socio-economic impacts. Mitigation 5.12.9 The IPCThe Secretary of State may wish to include a requirement that specifies the approval by the local authority of an employment and skills plan detailing arrangements to promote local employment and skills development opportunities, including apprenticeships, education, engagement with local schools and colleges and training programmes to be enacted.	
	Mitigation	
	5.13.10 The Secretary of State should consider whether mitigation measures are necessary to mitigate any adverse socio-economic impacts of the development. For example, high quality design can improve the visual and environmental experience for visitors and the local community alike.	
Waste Management Traffic and Transport (Part 5.14 of EN-1)	Introduction 5.4314.1 The transport of materials, goods and personnel to and from a development during all project phases can have a variety of impacts on the surrounding transport	The assessment presented in Chapter 5 (Traffic and Transport) of the ES (document reference 6.1.5APP-041) considers possible disruption to services and infrastructure as a result of the Proposed Scheme, in line with proposed paragraph 5.14.4.
	infrastructure and potentially on connecting transport networks, for example through increased congestion. Impacts may include economic, social and environmental effects. Environmental impacts may result particularly from increases in noise and emissions from road transport. Disturbance caused by traffic and abnormal loads generated during the construction phase will depend on the scale and type of the proposal.	Chapter 5 concludes that there would be temporary disruption to the highway network associated with the movement of AIL, and that this will be managed through an AIL strategy which is included in the Outline Construction Traffic Management Plan (OCTMP) presented at Appendix 5.1 of the ES (document reference 6.3.5.1AS-086). As set out in Table 1 above, the final CEMP is will be secured via a requirement in Schedule 2 of the DCO.
	5.4314.2 The consideration and mitigation of transport impacts is an essential part of Government's wider policy objectives for sustainable development as set out in Section 2.26 of this NPS.	The proposed addition of text at paragraph 5.14.8 highlights that the SoS "should only consider preventing or refusing development on highways grounds if there would be an unacceptable impact on highway safety, or residual cumulative impacts on the road network would be severe."

Policy Emerging Policy Text Detailing Changes Applicant's assessment 5.4314.3 If a project is likely to have significant transport implications, the applicant's ES (see Section 4.2) should include a transport assessment, using the NATA/WebTAG139¹²⁷ methodology stipulated in Department for Transport quidance140DfT) quidance¹²⁸, or any successor to such methodology. Applicants should consult the Highways Agency England and Highways Authorities as appropriate on the assessment and mitigation. 5.4314.4 Where appropriate, the applicant should prepare a travel plan including demand management measures to mitigate transport impacts. The applicant should also provide details of proposed measures to improve access by public transport, walking and cycling, to reduce the need for parking associated with the proposal and to mitigate transport impacts. 5.13The assessment should also consider any possible disruption to services and infrastructure (such as road, rail and airports). 5.14.5 If additional transport infrastructure is proposed, applicants should discuss with network providers the possibility of co-funding by Government for any third-party benefits. Guidance has been issued141 in England142issued129 which explains the circumstances where this may be possible, although the Government cannot quarantee in advance that funding will be available for any given uncommitted scheme at any specified time. **IPCSecretary of State decision making** 5.4314.6 A new energy NSIP may give rise to substantial impacts on the surrounding

5.4314.6 A new energy NSIP may give rise to substantial impacts on the surrounding transport infrastructure and the IPCSecretary of State should therefore ensure that the applicant has sought to mitigate these impacts, including during the construction phase of the development. Where the proposed mitigation measures are insufficient to reduce the impact on the transport infrastructure to acceptable levels, the IPCSecretary of State should consider requirements to mitigate 139adverse impacts on transport networks arising from the development, as set out below. Applicants may also be willing to enter into planning obligations for funding infrastructure and otherwise mitigating adverse impacts.

5.4314.7 Provided that the applicant is willing to enter into planning obligations or requirements can be imposed to mitigate transport impacts identified in the NATA/WebTAG transport assessment, with attribution of costs calculated in accordance with the Department for Transport's DfT's guidance, then development consent should not be withheld, and appropriately limited weight should be applied to residual effects on the surrounding transport infrastructure.

Mitigation 5.13.85.14.8 The Secretary of State should only consider preventing or refusing development on highways grounds if there would be an unacceptable impact on highway safety, or residual cumulative impacts on the road network would be severe.

Mitigation

Assessment of Changes of Relevance

As set out in the assessment of adopted EN-1 policy relating to 'Traffic and Transport', any adverse impacts from the Proposed Scheme in isolation or cumulatively are considered to be mitigable to an acceptable degree, as set out in Chapter 5 and Table B-1 above of Appendix B. Adverse cumulative impacts identified relating to driver delay and driver safety at Junction 4 (Junction 36 of the M62) are considered mitigable with the delivery of Junction improvement works, which the Applicant understands are due to be delivered between 2024 – 2029. The Proposed Scheme should therefore not be refused on grounds of severe impact on the road network.

Proposed paragraph 5.14.11 states applicants should "consider the DfT policy guidance "Water Preferred Policy Guidelines for the movement of abnormal indivisible loads" when preparing their Application". Chapter 5 considers this guidance and confirms that transport of AlL was discussed during pre-application discussions with National Highways, NYCC and ERoY. This is described in further detail in Chapter 3 (Consideration of Alternatives) of the ES (document reference 6.1.3APP-039) and in Table B.1 above in Appendix B. The outcome of the consultation was Agreement in Principle to transporting AIL by using the 'Road Option' and approval of the proposed strategy was confirmed 20 April 2021. The Applicant therefore considers the Proposed Scheme is in accordance with the DfT policy guidance.

Based on the above, the Applicant considers the Proposed Scheme to comply with the text proposed for inclusion in Part 5.14 of draft EN-1 policy.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	5.14.9 Where mitigation is needed, possible demand management measures must be considered and if feasible and operationally reasonable, required, before considering requirements for the provision of new inland transport infrastructure to deal with remaining transport impacts.	
	5.13.914.10 The IPCSecretary of State should have regard to the cost-effectiveness of demand management measures compared to new transport infrastructure, as well as the aim to secure more sustainable patterns of transport development when considering mitigation measures.	
	5.43.4014.11 Water-borne or rail transport is preferred over road transport at all stages of the project, where cost-effective. Applicants should consider the DfT policy guidance "Water Preferred Policy Guidelines for the movement of abnormal indivisible loads" when preparing their Application. 130	
	5.43.1114.12 The IPCSecretary of State may attach requirements to a consent where there is likely to be substantial HGV traffic that:	
	 Control numbers of HGV movements to and from the site in a specified period during its construction and possibly on the routing of such movements; 	
	 Make sufficient provision for HGV parking, either on the site or at dedicated facilities elsewhere, to avoid 'overspill' parking on public roads, prolonged queuing on approach roads and uncontrolled on-street HGV parking in normal operating conditions; and 	
	 Ensure satisfactory arrangements for reasonably foreseeable abnormal disruption, in consultation with network providers and the responsible police force- 5.13.12 	
	5.14.13 If an applicant suggests that the costs of meeting any obligations or requirements would make the proposal economically unviable this should not in itself	
	justify the relaxation by the IPCSecretary of State of any obligations or requirements needed to secure the mitigation.	
	127 WelTag in Wales. 140: https://gov.wales/welsh-transport-appraisal-guidance-weltag	
	Guidance on transport assessments is at http://www.dft.gov.uk/pgr/regional/transportassessments/guidanceonta and (for Wales) at: http://https://gov.wales-gov.uk/topics//welsh-transport-appraisal-guidance-weltag	
	129 https://www.gov.uk/government/publications/weltag/?lang=en 141 http://www.dft.gov.uk/pgr/regional/fundingtransportinfrastructure/ 142 Please note that no separate guidance has been issued fortransport-investment-strategy, For Wales. The Welsh Assembly Government discusses funding arrangements with developers on a project-specific basis., refer to the guidance note regarding Transport Grants or any successor to it: https://gov.wales/sites/default/files/publications/2020- 01/local-transport-grants-guidance-2020-	
	to-2021.pdf 130 https://www.gov.uk/government/publications/movement-of-abnormal-loads-by-water	
	Tittps://www.gov.un/governine/republications/moverne/it-of-abitoffilal-toaus-by-water	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
Water Quality and Resources and Waste Management (Part 5.15 of EN-1)	Introduction 5.4415.1 Government policy on hazardous and non-hazardous waste is intended to protect human health and the environment by producing less waste and by using it as a resource wherever possible. Where this is not possible, waste management regulation ensures that waste is disposed of in a way that is least damaging to the environment and to human health. 5.4415.2 Sustainable waste management is implemented through the "waste hierarchy", which sets out the priorities that must be applied when managing waste143waste131: a) prevention; b) preparing for reuse; c) recycling; d) other recovery, including energy recovery; and e) disposal; 5.4415.3 Disposal of waste should only be considered where other waste management options are not available or where it is the best overall environmental outcome. 5.4415.4 All large infrastructure projects are likely to generate hazardous and non-hazardous waste. The EA's Environmental Permitting (EP) regime incorporates operational waste management requirements for certain activities. When an applicant applies to the EA for an Environmental PermitteP, the EA will require the application to demonstrate that processes are in place to meet all relevant EP requirements.	Proposed paragraph 5.15.6 encourages applicants to refer to the Waste Prevention Programme for England ('WPP') and to minimise the volume of waste produced and the volume of waste sent for disposal unless it can be demonstrated that this is the best over environmental outcome. A new Waste Prevention Programme for England: Towards a Resource Efficient Economy was consulted upon in March to June 2021 and the update awaited. The WPP has not been specifically addressed in the ES, as neither the WPP in the draft NPS policy is yet adopted, and only limited weight can therefore be given to the at this stage. Moreover, the draft WPP is not a relevant document to consider for Operational Waste from the Proposed Scheme, as it is focused on seven key manufacturing sectors, none of which apply to Drax Power Station's current or future operations. However, Chapter 13 considers 'Our Waste, Our Resources: A Strategy for England' (DEFRA, 2018), the principles of which are aimed to be achieved by the WPP Proposed paragraphs 5.15.7 and 5.15.8 encourages applicants, where possible, to sour materials from recycled or reused sources and use low carbon materials, sustainable sources and local suppliers, and use construction best practices in relation to storing materials in an adequate and protected place on site to prevent waste. The CEMP for the Proposed Scheme will include a Materials Management Plan which will secure this approach. These matters have been addressed in Chapter 13 (Materials and Waste) of ES (document reference 6.1.13APP-049) and the assessment of adopted EN-1 policy relating to 'Resources and Waste Management' in Table B-1 above of Appendix B. The Applicant considers that the Proposed Scheme therefore complies with Part 5.15 cdraft EN-1.
	5.1415.5 Specific considerations with regard to radioactive waste are set out in sectionSection 2.11 and Annex B of EN-6. ThisThe present section will apply to non-radioactive waste for nuclear infrastructure as for other energy infrastructure. Applicant's assessment 5.1415.6 The applicant should set out the arrangements that are proposed for	
	managing any waste produced and prepare a Site Waste Management Plan. The arrangements described and Management Plan should include information on the proposed waste recovery and disposal system for all waste generated by the development, and an assessment of the impact of the waste arising from development on the capacity of waste management facilities to deal with other waste arising in the area for at least five years of operation. The applicant is encouraged to refer to the Waste Prevention Programme for England and should seek to minimise the volume of waste produced and the volume of waste sent for disposal unless it can be demonstrated that this is the best overall environmental outcome. 143 The Waste Hierarchy is set out in Article 16 of the Waste Framework Directive 2008 and The Waste (England and Wales) Regulations 2011. IPC decision making 5.14.7 The IPC If	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	include other uses of such material before disposal to sea, for example through re-use in the construction process.	
	5.15.7 Where possible, applicants are encouraged to source materials from recycled or reused sources and use low carbon materials, sustainable sources and local suppliers. Construction best practices should be used to ensure that material is reused or recycled onsite where possible.	
	5.15.8 Applicants are also encouraged to use construction best practices in relation to storing materials in an adequate and protected place on site to prevent waste, for example, from damage or vandalism. The use of Building Information Management tools (or similar) to record the materials used in construction can help to reduce waste in future decommissioning of facilities, by identifying materials that can be recycled or reused.	
	Secretary of State decision making	
	5.15.9 The Secretary of State should consider the extent to which the applicant has proposed an effective system for managing hazardous and non-hazardous waste arising from the construction, operation and decommissioning of the proposed development. #The Secretary of State should be satisfied that:	
	~ •Any such waste will be properly managed, both on-site and off-site;	
	The waste from the proposed facility can be dealt with appropriately by the waste infrastructure which is, or is likely to be, available. Such waste arisings should not have an adverse effect on the capacity of existing waste management facilities to deal with other waste arisings in the area; and	
	 Adequate steps have been taken to minimise the volume of waste arisings, and of the volume of waste arisings sent to disposal, except where that is the best overall environmental outcome. 	
	5.14.815.10 Where necessary, the IPCSecretary of State should use requirements or obligations to ensure that appropriate measures for waste management are applied. The IPCSecretary of State may wish to include a condition on revision of waste management plans at reasonable intervals when giving consent.	
	5.44.915.11 Where the project will be subject to the EP regime, waste management arrangements during operations will be covered by the permit and the considerations set out in Section 4.4011 will apply.	
	¹³¹ The Waste Hierarchy is set out in The Waste (England and Wales) Regulations 2011.	
Water Quality and Resources (Part 5.16 of EN-1)	Introduction 5.4516.1 Infrastructure development can have adverse effects on the water environment, including groundwater, inland surface water, transitional waters144waters132 and coastal waters. During the construction, operation and decommissioning phases, it can lead to increased demand for water, involve discharges to water and cause adverse ecological effects resulting from physical	The proposed text relating to the draft EN-1 policy for 'Water Quality and Resources' is sufficiently addressed in Appendix BTable 1 above. The Surface Water Drainage Strategy (Appendix 12.3 of Volume 3the ES) (document reference 6.3.12.3APP-162) details the proposed drainage scheme to support the Proposed Scheme. Drax Power Station has an existing established network of surface water sewers which collects surface water across the site and will operate during construction. The Surface Water Drainage Strategy and

Policy Emerging Policy Text Detailing Changes modifications to the water environment. There may also be an increased risk of spills and leaks of pollutants to the water environment. These effects could lead to adverse impacts on health or on protected species and habitats (see Section 4.3 and Section 4.182) and could, in particular, result in surface waters, groundwaters or protected areas145areas¹³³ failing to meet environmental objectives established under the Water Environment (Water Framework Directive 146. Directive) (England and Wales) Regulations 2017 and the Marine Strategy Regulations 2010¹³⁴. Applicant's assessment 5.4516.2 Where the project is likely to have effects on the water environment, the applicant should undertake an assessment of the existing status of, and impacts of the proposed project on, water quality, water resources and physical characteristics of the water environment as part of the ES or equivalent. (See Section 4.2.) 5.15.3 The ES should in particular describe: • (see Section 4.2). 5.16.3 Where possible, applicants are encouraged to manage surface water during construction by treating surface water runoff from exposed topsoil prior to discharging and to limit the discharge of suspended solids e.g., from car parks or other areas of hard standing, during operation. 5.16.4 Applicants are encouraged to consider protective measures to control the risk of pollution to groundwater beyond those outlined in Water Resource Management Plans - this could include, for example, the use of protective barriers.

5.16.5 The ES should in particular describe:

- The existing quality of waters affected by the proposed project and the impacts of the proposed project on water quality, noting any relevant existing discharges, proposed new discharges and proposed changes to discharges;
- Existing water resources147resources135 affected by the proposed project and the impacts of the proposed project on water resources, noting any relevant existing abstraction rates, proposed new abstraction rates and proposed changes to abstraction rates (including any impact on or use of mains supplies and reference to Catchment Abstraction Management Strategies); •) and also demonstrate how proposals minimise the use of water resources and water consumption in the first instance
- Existing physical characteristics of the water environment (including quantity and dynamics of flow) affected by the proposed project and any impact of physical modifications to these characteristics; and
- Any impacts of the proposed project on water bodies or protected areas (including shellfish protected areas) under the Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 and source protection zones (SPZs) around potable groundwater abstractions.

#PCSecretary of State decision making

Assessment of Changes of Relevance

existing drainage systems will ensure that run-off is treated, and the quality of discharges are managed.

The Water Framework Directive (WFD) screening exercise has been carried out for the Proposed Scheme. The conclusions of this exercise have been discussed with the Environment Agency and it has been agreed that a full WFD assessment is not required to accompany the planning application.

The Applicant therefore considers the Proposed Scheme accords with Part 5.1 of draft EN-1 policy.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	5.45.416.6 Activities that discharge to the water environment are subject to pollution control. The considerations set out in Section 4.4011 on the interface between planning and pollution control therefore apply. These considerations will also apply in an analogous way to the abstraction licensing regime regulating activities that take water from the water environment, and to the control regimes relating to works to, and structures in, on, or under a controlled water148.water. ¹³⁶	
	5.15.516.7 The IPCSecretary of State will generally need to give impacts on the water environment more weight where a project would have an adverse effect on the achievement of the environmental objectives established under the Water Environment (Water Framework Directive.) (England and Wales) Regulations 2017.	
	5.45.616.8 The IPCSecretary of State should satisfy itself be satisfied that a proposal has regard to the River Basin Management Plans and meets the requirements of the Water Framework Directive (including Article 4.7) and its daughter directives, including those on priority substances and groundwater. The specific objectives for particular river basins are set out in River Basin Management Plans. The IPC Environment (Water Framework Directive) (England and Wales) Regulations 2017 (including regulation 19). The specific objectives for particular river basins are set out in River Basin Management Plans. In terms of Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 compliance, the overall aim of development should be to prevent deterioration in status of water bodies to support the achievement of the objectives in the River Basin Management Plans and not to jeopardise the future achievement of good status for any affected water bodies. If the development is considered likely to cause deterioration of water body status or to prevent the achievement of good groundwater status or of good ecological status potential compliance with regulation 19 of the Water Environment (Water Framework Directive) (England and Wales) 2017 must be demonstrated.	
	5.16.9 The Secretary of State should also consider the interactions of the proposed project with other plans such as Water Resources Management Plans and Shoreline/Estuary Management Plans.	
	5.45.716.10 The IPCSecretary of State should consider whether appropriate requirements should be attached to any development consent and/or planning obligations entered into to mitigate adverse effects on the water environment.	
	Mitigation	
	5.15.816.11 The IPCSecretary of State should consider whether mitigation measures are needed over and above any which may form part of the project application. (See (see Sections 4.2 and 5.1.)). A construction management plan may help codify mitigation at that stage.	
	5.45.916.12 The risk of impacts on the water environment can be reduced through careful design to facilitate adherence to good pollution control practice. For example, designated areas for storage and unloading, with appropriate drainage facilities, should be clearly marked.	

5.45.4016.13 The impact on local water resources can be minimised through planning and design for the efficient use of water, including water recycling. 448 Controlled waters include all watercourses, lakes, lochs, coastal waters, and water contained in underground strata. If an applicant needs new water infrastructure, significant supplies or impacts other water supplies, the applicant should consult with the local water company and the EA or NRW. 144 As defined in the Water Framework Directive (2000/60/EC), transitional waters are bodies of surface water in the vioinity of river mouths which are partly ealine in character as a result of their proximity to coastal waters but which are existentially influenced by freakwater flowe. ¹⁵⁴ Protected area areas which have been designated as requiring special protection under specific Community legislation for the protection of their surface water and groundwater or for the conservation of habitats and species directly depending on water. ¹⁵² 2000/60/EC. ¹⁵² See EA defined in the Water Environment (Water Framework Directive) (England and Wales) Regulations 2017, transitional waters are bodies of surface water in the vicinity of river mouths which are partly saline in character as a result of their proximity to coastal waters but which are substantially influenced by freshwater flows. 135 Protected areas are areas which have been designated as requiring special protection under specific legislation for the protection of their surface water and groundwater or for the conservation of habitats and species directly depending on water. 136 https://www.gov.uk/government/publications/marine-strategy-part-one-uk-updated-assessment-and-	Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
		and design for the efficient use of water, including water recycling. 148 Controlled waters include all watercourses, lakes, lochs, coastal waters, and water contained in underground strata. If an applicant needs new water infrastructure, significant supplies or impacts other water supplies, the applicant should consult with the local water company and the EA or NRW. 144 As defined in the Water Framework Directive (2000/60/EC), transitional waters are bodies of surface water in the vicinity of river mouths which are partly saline in character as a result of their proximity to coastal waters but which are substantially influenced by freshwater flows. 145 Protected areas are areas which have been designated as requiring special protection under specific Community legislation for the protection of their surface water and groundwater or for the conservation of habitats and species directly depending on water. 146 2000/60/EC. 147 See EA document Water resources strategy for England and Wales: water for people and the environment (2009). 132 As defined in the Water Environment (Water Framework Directive) (England and Wales) Regulations 2017, transitional waters are bodies of surface water in the vicinity of river mouths which are partly saline in character as a result of their proximity to coastal waters but which are substantially influenced by freshwater flows. 133 Protected areas are areas which have been designated as requiring special protection under specific legislation for the protection of their surface water and groundwater or for the conservation of habitats and species directly depending on water.	
goodenvironmental-status; https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/522426/LIT_10 445.pdf; see PINS advice: https://infrastructure.planninginspectorate.gov.uk/wpcontent/uploads/2017/06/advice_note_18.pdf		goodenvironmental-status; https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/522426/LIT_10 445.pdf; see PINS advice:	
¹³⁵ See the Water Resources planning guideline: https://www.gov.uk/government/publications/water-resourcesplanning-guideline/water-resources-planning-guideline			
¹³⁶ Controlled waters include all watercourses, lakes, lochs, coastal waters, and water contained in underground strata.			

House Gas Emissions
(Part 2.5.37-2.5.45 2.13.

2. of EN-3)

Air Quality and Green

Introduction

2.5.3713.1 Generic air emissions impacts other than CO₂ are covered in Section 5.2 of EN-1. In addition, there are specific considerations which apply to biomass/ waste and Energy from Waste (EfW) combustion plant as set out below.

2.5.3813.2 Operational CO₂ emissions may be a significant adverse impact of biomass/waste combustion plant. and EfW electricity generating stations. Although an ES on air emissions will include an a carbon assessment will be provided as part of CO₂ emissions the ES, the policies set out in Section 2.Part 2 of EN-1 will apply. The IPCAs set out in Section 5.3 of EN-1, the Secretary of State does not, therefore, need to assess individual applications in terms offor planning consent against operational carbon emissions against and their contribution to carbon budgets and this section does not address CO₂ emissions or any Emissions Performance Standard that may apply to plant., net zero and our international climate commitments.

2.5.3913.3 In addition to the air quality legislation referred to in EN-1 (including the Environmental Permitting (England and Wales) Regulations 2016 (EPR) and the Air Quality Standards Regulations) the Waste Incineration Directive (WID) is Best

The proposed text relating to the draft EN-3 policy for 'Air Quality and Emissions' is sufficiently addressed in Appendix BTable 1 above. The Applicant therefore considers the Proposed Scheme accords with Part 2.13 of draft EN-3 policy.

Whilst the Secretary of StateSoS does not need to assess individual applications for planning consent against operational carbon emissions and their contribution to carbon budgets, net zero and our international climate commitments, it is nonetheless an important and relevant consideration that the Proposed Scheme does pay an important contribution towards net zero.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	Available Techniques (BAT) conclusions11 are also relevant to waste combustion plant. #This sets out specific emission limit values for waste combustion plants.	
	Applicant's assessment	
	2.5.4013.4 The applicant's EIAES should include an assessment of the air emissions resulting from the proposed infrastructure and demonstrate compliance with the relevant regulations (see Section 5.2 of EN-1). IPC	
	Mitigation	
	2.13.5 Abatement technologies should be those set out in the relevant sector guidance notes as produced by the EA. The EA will determine if the technology selected for the waste/ biomass combustion generating station is considered Best Available Technique (BAT) and therefore the Secretary of State does not need to consider equipment selection in its determination process.	
	Secretary of State decision making	
	2.5.4113.6 Compliance with the WID and the Large Combustion Plant Directive13 (LCPD)EPR is enforced through the environmental permitting regime regulated by the Environment Agency (EA). Plants not meeting the requirements of the WID and/or LCPDEPR would not be granted a permit to operate. The IPCSecretary of State should refer to the policy in Section 4.1011 of EN-1 relating to other regimes.	
	2.5.4213.7 The pollutants of concern arising from the combustion of waste and biomass may include NOx 14, SOx 15,NOx12, SOx13, NMVOCs14 particulates and CO ₂ In addition, emissions of heavy metals, dioxins and furans are a consideration for waste combustion generating stations, but limited by the WIDEPR and waste incineration BAT conclusions and regulated by the EA.	
	2.5.4313.8 Where a proposed waste combustion generating station meets the requirements of WIDthe EPR and BAT conclusions and will not exceed the local air quality standards, the IPCSecretary of State should not regard the proposed waste generating station as having adverse impacts on health.	
	2.5.4413.9 Similarly, where a proposed biomass combustion generating station meets the requirements of LCPDthe EPR and relevant BAT conclusions and will not exceed the local air quality standards, the IPCSecretary of State should not regard the proposed biomass infrastructure as having adverse impacts on health.	
	Mitigation 2.5.45 Abatement technologies should be those set out in the relevant sector guidance notes as produced by the EA. The EA will determine if the technology selected for the waste/ biomass combustion generating station is considered Best	
	Available Technique (BAT) and therefore the IPC does not need to consider equipment selection in its determination process. 11 Guidance for Best available techniques: environmental permits	
	https://www.gov.uk/guidance/best-availabletechniques-environmental-permits 12 Nitrogen oxides	
	¹⁵ 13 Sulphur oxides	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	¹⁴ Non-Methyl Volatile Organic Compounds ¹³ Large Combustion Plant Directive 2001/80/EC can be found at: http://eur-lex.europa.eu/LexUriServ/site/en/oj/2001/l_309/l_30920011127en00010021.pdf- ¹⁴ Oxides of nitrogen	
IPC Impact Assessment Principles (Part 2.5.3412.4 and 2.5.312.6 of EN-3)	National designations 2.5.3412.4 In considering the impact on the historic environment as set out in Section 5.89 of EN-1 and whether it is satisfied that the substantial public benefits would outweigh any loss or harm to the significance of a designated heritage asset, the IPCSecretary of State should take into account the positive role that large-scalelarge scale renewable projects play in the mitigation of climate change, the delivery of energy security and the urgency of meeting the national targets for renewable energy supply and emissions reductions.net zero target. Other locational considerations 2.5.3612.6 As most renewable energy resources can only be developed where the resource exists and where economically feasible, the IPCand because there are no limits on the need established in Chapter 3 of EN-1, the Secretary of State should not use a sequential approach in the consideration of renewable energy projects (for example, by giving priority to the re-use of previously developed land for renewable technology developments).	The proposed text relating to the draft EN-3 policy for 'IPC Impact Assessment Principles' is sufficiently addressed in Appendix BTable 1 above. The Applicant therefore considers the Proposed Scheme accords with Part 2.12 of draft EN-3 policy.
Landscape and Visual (Part 2. 5.4614.1 - 2. 5.58 14.7 of EN-3)	Introduction 2.5.4614.1 Generic landscape and visual effects are covered in detail in Section 5.910 of EN-1. This includes specific policy guidance for developments proposed within nationally designated landscapes. In addition, there are specific considerations which apply to biomass / waste combustion generating stations as set out below. 2.5.4714.2 The IPCSecretary of State should be satisfied that the design of the proposed generating station is of appropriate quality and minimises adverse effects on the landscape character and quality. Applicant's assessment	The proposed text relating to the draft EN-3 policy for 'Landscape and Visual' is sufficiently addressed in Appendix BTable 1 above. In terms of the additional reference to sympathetic design in proposed paragraphs 2.14.5 and 2.14.7, the approach to design including the colour palette in particular is sympathetic to the local landscape character. The Applicant therefore considers the Proposed Scheme accords with Part 2.14 of draft EN-3 policy.
	2.5.4814.3 An assessment of the landscape and visual effects of the proposed infrastructure should be undertaken in accordance with the policy set out in 5.910 of EN-1. **PCSecretary of State decision making** 2.5.4914.4 The **IPCSecretary of State** should take into account that any biomass/waste combustion generating station will require a building able to host fuel reception and storage facilities, the combustion chamber and abatement units. The overall size of the building will be dependent on design and fuel throughput, although it is unlikely to be less than 25m in height. External to the building there may be cooling towers, the size of which will also be dependent on the throughput of the generating station. 2.14.5.59 Good design that is sympathetic and contributes positively to the landscape character and quality of the area will go some way to mitigate adverse landscape/ and visual effects. Development proposals should consider the design of the generating	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	station, including the materials to be used in the context of the local landscape. 2.5.51 Mitigation character. 2.14.6 Although micro-siting within the development area can help, mitigation is achieved primarily through aesthetic aspects of site layout and building design including size and external finish and colour of the generating station to minimise intrusive appearance in the landscape as far as engineering requirements permit. The precise architectural treatment will need to be site-specific site specific. 2.5.5214.7 The IPCSecretary of State should expect applicants to seek to design the landscape design of waste/biomass combustion generating station sites to visually enclose them at low level as seen from surrounding external viewpoints. This makes the scale of the generating station less apparent, and helps conceal its lower level, smaller scale features. Earth bunds and mounds, tree planting or both may be used for softening the visual intrusion and may also help to attenuate noise from site activities. However, these features should be sympathetic to local landscape character and follow best practice. 15 Such as the 10 characteristics of good design which are set out in the National Design Guide https://www.gov.uk/government/publications/national-design-guide and the draft National Model Design Code and guidance notes https://www.gov.uk/government/consultations/national-planning-policy-framework-and-nationalmodel-design-code-consultation-proposals	
Biomass/Waste Impacts – Waste Management and Residue Management (Part 2.5.6417.1 - 2.5.8318.13 of EN-3)	2.5.6417.1 Waste combustion generating stations need not disadvantage reuse or recycling initiatives where the proposed development accords with the waste hierarchy. 2.5.6517.2 National, local and municipal strategies in England and Wales provide policy expectations for waste management at these different geographical levels. Local authorities will be responsible for providing an informative framework for the amount of waste management capacity sought. Information on the type of wasteswaste arising and those that are combustible may also be provided. In Wales, the relevant regional waste plan will set out the strategy for dealing with waste generated in that region and include waste targets. Applicant's assessment 2.5.6617.3 An assessment of the proposed waste combustion generating station should be undertaken that examines the conformity of the scheme with the waste hierarchy and the effect of the scheme on the relevant waste plan or plans where a proposal is likely to involve more than one local authority. 2.5.6717.4 The application should set out the extent to which the generating station and capacity proposed contributes to the recovery compatible with and supports long-term recycling targets set out in relevant strategies and plans, taking into account existing residual waste treatment capacity- and that already in development.	The proposed text relating to the draft EN-3 policy for 'Biomass/Waste Impacts – Waste Management and Residue Management' is sufficiently addressed in Appendix BTable 1 above. The Applicant therefore considers the Proposed Scheme accords with Part 2.17 of draft EN-3 policy.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	2.17.5.68 It may be appropriate for assessments to refer to the Annual Monitoring Reports published by relevant waste authorities which provide an updated figure of existing waste management capacity and future waste management capacity requirements.	
	2.5.6917.6 The results of the assessment of the conformity with the waste hierarchy and the effect on relevant waste plans should be presented in a separate document to accompany the application to the IPC. IPCSecretary of State.	
	Secretary of State decision making	
	2.5.7017.7 The IPCSecretary of State should be satisfied, with reference to the relevant waste strategies and plans, that the proposed waste combustion generating station is in accordance with the waste hierarchy and of an appropriate type and scale so as not to prejudice the achievement of local or national waste management targets in England and local, regional or national waste management targets in Wales. Where there are concerns in terms of a possible conflict, evidence should be provided to the IPCSecretary of State by the applicant as to why this is not the case or why a deviation from the relevant waste strategy or plan is nonetheless appropriate and in accordance with the waste hierarchy. The Secretary of State should also consider whether a requirement, including monitoring, is appropriate to ensure compliance with the waste hierarchy.	
	2.18 Biomass/Waste Impacts - Residue and waste combustion impacts: residue	
	<u>management</u>	
	Introduction	
	2.5.7118.1 Generic waste management impacts are set out in Section 5.1415 of EN-1. In addition, there are specific considerations which apply to waste and biomass combustion generating stations as set out below. All waste/biomass combustion generating stations will produce residues that require further management. Much of the residues can be used for commercial purposes.	
	2.5.7218.2 Generating stations that burn waste (even if mixed with biomass fuel) produce two types of residues:	
	 Combustion residue is inert material from the combustion chamber. The quantity of residue produced is dependent on the technology process and fuel type but might be as much as 30% (in terms of weight) of the fuel throughput of the generating station; and 	
	 Fly ash, a residue from flue gas emission abatement technology and usually 3-4% (in terms of weight) of the fuel throughput of the generating station. 	
	2.5.73 Under the WID the 18.3 The two residues from waste combustion generating stations cannot be mixed; they must be disposed of separately, under different regimes.	
	2.5.7418.4 Biomass combustion generating stations will also produce both combustion and flue gas treatment residues. However, the residue types can be mixed and	

Drax Bioenergy with Carbon Capture and Storage

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	managed as one product for disposal. Residues arising from biomass combustion generating stations are usually between 1% and 12% (in terms of weight) of the fuel capacity of the plant. 2.5.75	
	2.18.5 The regulations on waste disposal for waste combustion and flue gas residues from biomass combustion are intended to reduce the amount of waste that is sent to landfill. Waste combustions fly ash is classified as a hazardous waste material and needs to be managed as such.	
	2.5.7618.6 Waste management is covered in the Environmental Permit for operation of waste or biomass generating stations. (See Section 5.1415 of EN-1.)	
	Applicant's assessment	
	2.5.7718.7 The assessment should include the production and disposal of residues as part of the ES. Any proposals for recovery of ash and mitigation measures should be described.	
	2.5.7818.8 Applicants should set out the consideration they have given to the existence of accessible capacity in waste management sites for dealing with residues for the planned life of the power station.	
	Mitigation	
	2.18.9 The environmental burdens associated with the management of combustion residues can be mitigated through recovery of secondary products, for example aggregate or fertiliser, rather than disposal to landfill. The Secretary of State should give substantial positive weight to development proposals that have a realistic prospect of recovering these materials. The primary management route for fly ash is hazardous waste landfill; however, there may be opportunities to reuse this material for example in the stabilisation of industrial waste. The management of hazardous waste will be considered by the EA through the Environmental Permitting regime. IPC decision making 2.5.79 The IPC should consult the EA on the suitability of the proposals. National Policy Statement for Renewable Energy Infrastructure (EN-3) 24 2.5.80 When the IPC	
	Secretary of State decision making	
	2.18.10 The Secretary of State should consult the EA on the suitability of the proposals.	
	2.18.11 When the Secretary of State considers noise and vibration, release of dust and transport impacts, as set out in this NPS and EN-1, it should recognise that these impacts may arise as a result offrom the need for residue disposal as well as other factors.	
	2.5.8118.12 The IPCSecretary of State should be satisfied that management plans for residue disposal satisfactorily minimise the amount that cannot be used for commercial purposes. The IPCSecretary of State should give substantial positive weight to development proposals that have a realistic prospect of recovering residues.	

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	2.5.8218.13 The IPC Secretary of State should consider what requirements it may be appropriate to impose. If the EA has indicated that there are no known barriers to it issuing an Environmental Permit for operation of the proposed biomass/waste fuelled generating station and agrees that management plans suitably minimise the wider impacts from ash disposal, any residual ash disposal impacts should have limited weight. Mitigation 2.5.83 The environmental burdens associated with the management of combustion residues can be mitigated through recovery of secondary products, for example aggregate or fertiliser, rather than disposal to landfill. The IPC should give substantial positive weight to development proposals that have a realistic prospect of recovering these materials. The primary management route for fly ash is hazardous waste landfill. However, there may be opportunities to reuse this material for example in the stabilisation of industrial waste. The management of hazardous waste will be considered by the EA through the Environmental Permitting regime.	
Water Quality and Resources (Part 2.5.8419.1 - 2.5.8719.4 of EN-3)	Introduction 2.5.8419.1 Generic water quality and resource impacts are set out in Section 5.4516 of EN-4EN1. The design of water-cooling systems for EfW and biomass generating stations will have additional impacts on water quality, abstraction and discharge. This can affect marine ecosystems where cooling systems use seawater. These may include: - Discharging water at a higher temperature than the receiving water, affecting the biodiversity of aquatic flora and fauna; - The use of resources may reduce the flow of watercourses, affecting the rate at which sediment is deposited, conditions for aquatic flora and potentially affecting migratory fish species (e.g., salmon); - The fish impingement and/or entrainment—, i.e., being taken into the cooling system during abstraction; and - The discharging of water containing chemical anti-fouling treatment of water for use in cooling systems may have adverse impacts on aquatic biodiversity. Applicant's assessment 2.5.8519.2 Where the project is likely to have effects on water quality or resources the applicant should undertake an assessment as required in EN-1, Section 5.4516. The assessment should particularly demonstrate that appropriate measures will be put in place to avoid or minimise adverse impacts of abstraction and discharge of cooling water. IPC decision making 2.5.86 The IPC should be satisfied that the applicant has demonstrated measures to minimise adverse impacts on water quality and resources as described above and in EN-1. Mittigation 2.5.87 Mittigation 2.19.3 In addition to the mitigation measures set out in EN-1, design of the cooling system should include intake and outfall locations that avoid or minimise adverse	The proposed text relating to the draft EN-3 policy for 'Water Quality and Resources' is sufficiently addressed in Appendix BTable 1 above. The Applicant therefore considers the Proposed Scheme accords with Part 2.19 of draft EN-3 policy.

Policy	Emerging Policy Text Detailing Changes	Assessment of Changes of Relevance
	impacts. There should also be specific measures to minimise fish impingement and/or entrainment and the discharge of excessive heat to receiving waters.	
	Secretary of State decision making	
	2.19.4 The Secretary of State should be satisfied that the applicant has demonstrated measures to minimise adverse impacts on water quality and resources as described above and in EN-1.	