



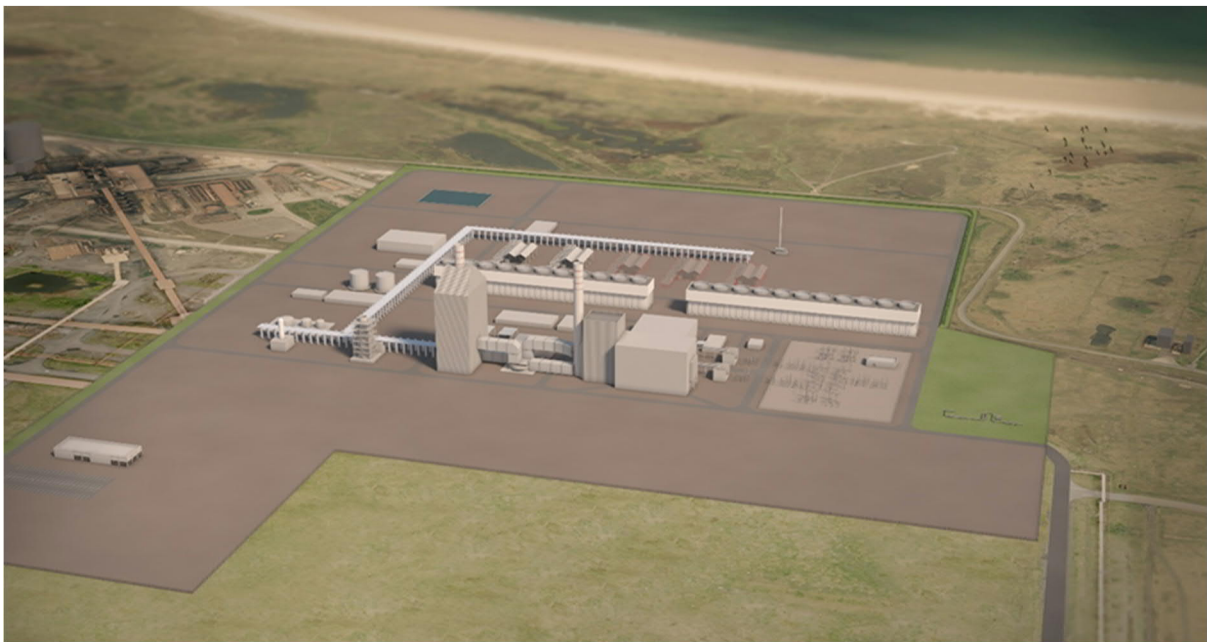
Net Zero Teesside – Environmental Statement Addendum Non-Technical Summary

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Table of Contents

1.	Non-Technical Summary	1
1.1	Introduction.....	1
1.2	Scope and methodology of the ES Addendum	2
2.	Proposed Development Changes	3
2.1	Introduction.....	3
2.2	Evaluation of Proposed Development Changes	3
3.	Changes to the Original Environmental Statement	8
3.1	Introduction.....	8
3.2	Changes to Chapters 1-7 and Chapter 22 of the Original ES.....	8
3.3	Environmental Assessment of Proposed Development Changes.....	10

Figures

No table of figures entries found.

Tables

Table 2-1 : Summary of the changes proposed and the effect of the change on Work No. areas.....	3
Table 3-1 : Summary of the Extent of Changes to Chapter 1- 7 and Chapter 22 of the Original ES	8

1. Non-Technical Summary

1.1 Introduction

- 1.1.1 This document presents a Non-Technical Summary (NTS) of an addendum to the Environmental Statement (ES) (herein referred to as the ES Addendum) that has been prepared to accompany the Development Consent Order (DCO) Application by Net Zero Teesside Power Limited and Net Zero North Sea Storage Limited (the 'Applicants') under the Planning Act 2008 to the Planning Inspectorate (who considers such applications on behalf of the Secretary of State for Business, Energy and Industrial Strategy) (the 'DCO Application'). The DCO Application was accepted for examination on 16 August 2021.
- 1.1.2 The Applicants are seeking development consent for the construction, operation and maintenance of the Net Zero Teesside Project ('NZN'), including associated development (together referred to as the 'Proposed Development') on land at and in the vicinity of the former Redcar Steel Works site, Redcar, and on land in Stockton-on-Tees, on Teesside (the 'Site'). The former Redcar Steel Works site is within the landownership South Tees Development Corporation (STDC).
- 1.1.3 As a result of ongoing design development and consultation, the Applicants are proposing thirteen changes to the Application ('the Proposed Development Changes'). The ES Addendum and this NTS examine the potential environmental effects the Proposed Development Changes.
- 1.1.4 A consultation on the Proposed Development Changes was carried out by the Applicants between 10th March and 14th April 2022. Further details of the consultation activities and feedback received is contained in the Consultation Report submitted with the Change Application.
- 1.1.5 The ES Addendum is provided in support of the Change Application submitted to the Examining Authority.

Terminology used in the ES Addendum

- 1.1.6 As a result of the Change Application, the Environmental Statement [**APP-083** to **APP-347**] submitted as part of the DCO Application (hereafter referred to as the 'Original ES') was reviewed to identify if any of the Proposed Development Changes alter the outcomes of the Original ES.
- 1.1.7 The ES Addendum should be read in conjunction with the Original ES and where necessary identifies where ES Addendum text supersedes Original ES text.
- 1.1.8 Whilst the Proposed Development Changes are described as changes (primarily reductions) to the extent of the Order Limits, the driver for those changes is refinements to the extent of works required in connection with the Proposed Development. As it is the changes to extent of works that triggers potential changes to the environmental effects reported on in the Original ES,

this ES Addendum assesses the impact of the modifications to the extent of works by reference to Work Numbers.

1.2 Scope and methodology of the ES Addendum

Overview

- 1.2.1 Throughout the ES Addendum, references are given to the Examination Library numbers assigned by the Examining Authority (identified within square brackets, e.g. [APP-043] for information previously accepted for examination and to the Applicants' document numbers ('Application Document Ref.' numbers) for documents which have yet to be assigned an Examination Library number by the Examining Authority.
- 1.2.2 A glossary of terms and list of abbreviations used in this ES Addendum NTS and is provided is provided within the Original ES submitted with the DCO Application in July 2021 (ES Vol I Cover and Contents [APP-082]).
- 1.2.3 The general assessment methodology and topic-specific methodologies, relevant legislation, policy and guidance, key assumptions and limitations set out in Original ES (specifically Chapter 2 Assessment Methodology [APP-084] submitted with the DCO Application) remain unchanged unless specifically stated in this ES Addendum.
- 1.2.4 The ES Addendum comprises of two volumes:
 - ES Volume I - describes the Proposed Development Changes and outlines whether the changes affect the original ES technical chapters and appendices [APP-084 to APP-107 and APP-237 to APP-348] and original ES figures [APP-109 to APP-236] submitted with the DCO Application; and
 - ES Volume II - provides updated ES figures, where these are required.
- 1.2.5 This Non-Technical Summary (NTS) accompanies the ES Addendum and provides a summary of the key findings from the ES Addendum in non-technical language.

2. Proposed Development Changes

2.1 Introduction

2.1.1 This section of the NTS presents a brief description of the Proposed Development Changes and evaluates how the change in area of the affected Work Number modifies the description of the Proposed Development and the assessment outcomes as presented in the Original ES.

2.2 Evaluation of Proposed Development Changes

2.2.1 Since the submission of the DCO Application, thirteen changes to the Order Limits have been developed. Each of the changes have resulted in changes in the area of the Work Numbers for the Proposed Development, which are presented in Schedule 1 of the draft DCO [AS-004].

2.2.2 Each of the Proposed Development Changes is explained below. Where necessary, Section 3 of the ES Addendum provides an explanation of how chapters of the Original ES would change as a result of the Proposed Development Changes if the description of the Proposed Development has changed as a result.

2.2.3 The Order Limits are presented in Figure 3.1 (Ref. 6.3.2 Rev 2) and Figure 3.2 (Ref. 6.3.3 Rev 2) of the ES Addendum Volume II (Application Document Ref. 7.8.2). An updated Site Location Plan is presented as Figure 1.1 of ES Addendum Volume II (Application Document Ref 6.3.1 Rev 2).

2.2.4 Table 2-1 provides a summary of the changes proposed and the effect of the change.

Table 2-1 : Summary of the changes proposed and the effect of the change on Work No. areas.

Change	Description	Summary of the effect of the Change in comparison to Original ES assessment
1	Removal of optionality for the Gas Connection by removal of both 'new build' options - Option 1A and Option 1B (i.e. removal of the long tunnel between North Tees and the Power Capture and Compression (PCC) site) resulting in a reduction in the Order Limits. There will also be a reduction in land take elsewhere following pre-Front End Engineering Design (pre-FEED) and landowner consultation for the selected Gas Connection – Option 2 (Sembcorp Pipeline Tie-In). (Work Number (Work No.) 2A)	The effect of Change 1 is likely therefore to be beneficial during the construction phase. The change will not have any change in the previously predicted effects during the operation or decommissioning phases.

Change Description

Summary of the effect of the Change in comparison to Original ES assessment

2	Reduction in optionality for the Gas Connection has resulted in the removal of the Above Ground Installation required for Option 1B (Trafigura tie-in and new underground pipeline). This results in a reduction in the Order Limits. (Work No. 2B)	Change 2 reduces the need for the excavation and removal of spoil, reduces associated HGV movements, reduces noise experienced by noise sensitive receptors and reduces dust generation. The effect of Change 2 is likely therefore to be beneficial during the construction phase. The change will not have any change in the previously predicted effects during the operation or decommissioning phases.
3	Reduction in the Order Limits for Work No. 3A Electrical Connection by removal of the STDC Sub-station at Tod Point and a reduction in land take following landowner consultation. (Work No. 3A)	Change 3 will increase the distance to noise sensitive receptors from sub-station construction. The effect of this will therefore be beneficial during the construction phase. The change will not have any change in the previously predicted effects during the operation or decommissioning phases.
4	Reduction in the Order Limits for Work No. 5A (repair and upgrade of the existing water discharge infrastructure to the Tees Bay) – to cover the physical extent of the existing outfall and its direct routing to the PCC site only. (Work No. 5A)	Change 4 will increase the potential distance to noise sensitive receptors from any refurbishment operations and reduce the potential extent of works in the marine environment. The effect of this is likely therefore to be beneficial during the construction phase. The change will not alter the previously predicted effects during the operation or decommissioning phases.
5	Reduction in the Order Limits for Work No. 5C (new wastewater pipelines between Bran Sands Wastewater Treatment Plant and Generating Station) – connection to Bran Sands to reflect a reduction in land take following landowner consultation. (Work No. 5C)	Change 5 will increase the distance to noise sensitive receptors from construction. The effect of this is likely therefore to be beneficial during the construction phase. The change will not result in an update to the previously predicted effects during the operation or decommissioning phases.

Change Description

Summary of the effect of the Change in comparison to Original ES assessment

6	<p>Change in optionality for Work No. 6 by removal of Option 1 (Bored Long Tunnel Direct to the PCC site) for the CO₂ Gathering Network (see also Change 1 for the Gas Connection) resulting in reduction in the Order Limits. It also includes a reduction in other land areas of Work No. 6 following further design and landowner consultation. (Work No. 6)</p>	<p>Change 6 will increase the distance to noise sensitive receptors from any construction operations (as construction effects were measured from the previous Order Limits in the DCO Application). The change will not therefore have an any change in the previously predicted effects during the operation or decommissioning phases.</p>
7	<p>Change in the means of crossing the Tees within the Order Limits for Work No. 6 CO₂ Gathering Network to include Option 3 (Sembcorp No 2 Tunnel). (Work No. 6)</p>	<p>Change 7 will remove the need for stockpiling and disposal of excavated spoil associated with tunnelling/boring and would mean that the Tees crossing would be constructed underground within the Sembcorp No. 2 Tunnel. The effect of this change would be neutral during the construction phase. The change will also not have any change to the previously predicted effects during the operation or decommissioning phases.</p>
8	<p>Change in the means of crossing the Tees in the Order Limits for Work No. 6 CO₂ Gathering Network (as part of Option 2 (HDD) to change the direction of HDD drilling (from Dabholm Gut to North Tees, rather than vice versa) following further design and landowner consultation. (Work No. 6)</p>	<p>Change 8 has no impact on the Order Limits. However, the change in trajectory will mean that HDD drilling equipment will be located close to the Bran Sands Lagoon. Reassessment of noise impacts on human receptors and noise and visual disturbance impacts on protected bird species has shown that the effect of this change will not result in a change to the previously predicted effects during the operation or decommissioning phases.</p>

Change Description

Summary of the effect of the Change in comparison to Original ES assessment

9	Reduction in the Order Limits for Work No. 9 Temporary Construction and Laydown Areas to reflect a reduction in land take following further design and landowner consultation. (Work Nos. 9A, 9B and 9F)	Change 9 will increase the distance to noise sensitive receptors. The effect of reducing the land requirements is likely therefore to be beneficial during the construction phase. The change will not have any change in the previously predicted effects during the construction phase. The operation and decommissioning phases are not relevant since Work No. 9 will only take place during construction.
10	Minor increase in the Order Limits for Work No. 9 Temporary Construction and Laydown Areas to include an additional land-parcel at Saltholme Laydown (Work No. 9D) to allow access to Seaton Carew Road. (Work No 9D)	Change 10 will require a minor amount of additional land which is located adjacent to the public highway and was assessed within the Original ES. No additional environmental effects during construction operation or decommissioning phases are predicted.
11	Change in the Work No. for pipe stringing for a land parcel on the Teesworks site from Work No. 5A to Work No. 9A. (Work No. 9A)	Change 11 not change the previously assessed effects during the construction, operation or decommissioning phases.
12	Addition of part of Seal Sands Road from Work No. 2A to Work No. 10 Access and Highways Improvements, to allow access to Navigator Terminals from the public road network following removal of Gas Connection Option 1A (National Grid Gas tie-in and new underground pipeline) and Option 1B (Trafigura Tie-In and new underground pipeline) from Work No. 2A (linked to Change No. 1). (Work No. 10)	Change 12 will not change the previously assessed effects during the construction, operation or decommissioning phases.

Change Description

Summary of the effect of the Change in comparison to Original ES assessment

13	Removal of small parcels of land in the Seal Sands area and from STDC land from Work No. 10 Access and Highways Improvements as no longer required following pre-FEED design. Also includes removal of a small parcel of land owned by Teesworks from Work No. 4. (Work Nos. 10 and 4)	Change 13 will not change the previously assessed effects during the construction, operation or decommissioning phases.
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3. Changes to the Original Environmental Statement

3.1 Introduction

3.1.1 The ES Addendum has been split into changes from Chapters 1 to 7 and also Chapter 22 (Major Accidents and Hazards [APP-104] of the Original ES which are discussed in this Section of the NTS. Changes to the remaining technical chapters (Chapters 8- 23) of the Original ES are discussed in Chapter 4 and associated Appendices to the ES Addendum.

3.2 Changes to Chapters 1-7 and Chapter 22 of the Original ES

Chapter 1 – Introduction

3.2.1 The following table summarises the changes made as a result of the changes to the Original ES.

Table 3-1 : Summary of the Extent of Changes to Chapter 1- 7 and Chapter 22 of the Original ES

Chapter Number and title	Extent of Change
1 – Introduction	The proposed changes to the areas of the work numbers and associated changes to the Order Limits do not change the text of the Original ES.
2 – Methodology	The proposed changes to the areas of the work numbers and associated changes to the Order Limits do not change the text of the Original ES.
3 – Description of the Existing Environment	The Proposed Development Changes have resulted in a reduction in the stated area of the Order Limits from 462 ha to 304 ha. While the overall description of the Proposed Development site set out in Chapter 3: Site Description of the Existing Environment [APP-085] remains unchanged, there are either no increases or slight reductions in the distances measured between the Order Limits and receptors as a result of the Proposed Development Changes.

Chapter Number and title	Extent of Change
4 – Proposed Development	<p>The description of the CO₂ Gathering Network has been updated to reflect the Proposed Development Changes, specifically changes 6, 7 and 8 (which relates to Work No. 6).</p> <p>The description of the Natural Gas Connection has been updated to reflect the Proposed Development Changes, specifically Change 1 (which relates to Work No 2A).</p>
5 – Construction Programme and Management	<p>The description of the construction of the Gas Connection has been updated to reflect Changes 1 and 2 (which relate to Work Nos. 2A and 2B). Table 5-3 (Crossings on the Gas Connection Route) has also been updated to remove references to Options 1A and 1B of the Gas Connection and show the Sembcorp pipeline connection only (Change 2, Work Nos. 2A and 2B).</p> <p>Boxes 5-1 and 5.2 have been updated, along with paragraph 5.3.68 (now paragraph 5.3.65) to which reflects Changes 6, 7 and 8 (Work No. 6). The subsequent paragraphs have also been updated to the updated paragraph 5.3.69. Updates have been made to Table 5-3 (Special Crossings on the Gas Connection Route) to reflect Change 1 (Work No. 2A) and also to Table 5-8 (Special Crossings on the CO₂ Gathering Network) to reflect Changes 6 and 7 (Work No. 6).</p>
6 – Alternatives and Design Evolution	<p>The ES Addendum has included a paragraph to explain how the changes proposed have been developed since the submission of the Application and the Proposed Development Changes. An additional table has been added (Table 6-2: Summary of design changes and a comparison of environmental effects between ES submission and the Change Notification) to describe the changes made and the associated effects.</p>
7 - Legislation and Policy	<p>There have been no changes to Chapter 7.</p>

Chapter Number and title	Extent of Change
22 – Major Accidents and Natural Disasters	Tables 22-2 (Potential Major Accident and/ or Disaster Events during Construction grouped by Risk Event (Updates only – highlighted) and 22-3 (Potential Major Accident and/ or Disaster Events during Operation grouped by Risk Events (Updates only) of the Original ES have been updated to updated to assess risks during construction, operation and decommissioning of the CO ₂ Gathering Network pipeline in the Sembcorp No.2 Tunnel.

3.3 Environmental Assessment of Proposed Development Changes

- 3.3.1 The ES Addendum identifies where the Proposed Development Changes have the potential to modify the assessment of impacts and effects reported in the technical chapters of the original ES.
- 3.3.2 The ES Addendum presents a preliminary environmental assessment (screening) of whether the proposed changes would change the baseline or alter the outcomes of previous assessments presented in the Original ES.
- 3.3.3 The screening assessment identified that the Proposed Changes will not affect the significance of effects predicted for Air Quality, Surface Water, Flood Risk and Water Resources, Geology and Contaminated Land, Terrestrial Ecology, Aquatic Ecology, Marine Ecology, Traffic, Landscape and Visual Amenity, Marine Heritage, Socio-Economic, Climate Change, Public Health, Cumulative and Combined Effects and the Summary of Significant Effects chapters of the Original ES.
- 3.3.4 The screening assessment identified the following topics assessment as requiring updates as a result of the changes:
- Noise and Vibration;
 - Ornithology; and,
 - Major Accidents and Disasters (changes referred to in Table 3-1 of this NTS)
- 3.3.5 Further information detailing the changes to the Noise and Vibration and Ornithology assessments are presented in Appendices A and B of the ES Addendum respectively. Updated text on Major Accidents and Disasters is included in Section 3 of the ES Addendum. These updated assessments identified no change to the significance of effects in these topics.