

Net Zero Teesside Project

Planning Inspectorate Reference: EN010103

Land at and in the vicinity of the former Redcar Steel Works site, Redcar and in Stockton-on-Tees, Teesside

The Net Zero Teesside Order

Document Reference: 8.12 – Statement of Common Ground with Northumbrian Water Ltd



Applicants: Net Zero Teesside Power Limited (NZT Power Ltd) & Net Zero North Sea Storage Limited (NZNS Storage Ltd)

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GLOSSARY

Abbreviation	Description
AD Guidance	Guidance on associated development
	applications for major infrastructure projects'
	(April 2013)
AGI	Above Ground Installation
Applicants	Together NZT Power and NZNS Storage
Application (or DCO Application)	The application for a DCO made to the SoS under
	Section 37 of PA 2008 in respect of the Proposed
	Development, required pursuant to Section 31 of
	the PA 2008 because the Proposed Development
	is a NSIP under Section 14(1)(a) and Section 15 of
	PA 2008 by virtue of being an onshore generating
	station in England or Wales of electrical capacity
	of more than 50 megawatts, and which does not
	generate electricity from wind, and by the Section
	35 Direction
Associated Development	Defined under S.115(2) of PA 2008 as
	development which is associated with the
	principal development and that has a direct
	relationship with it. Associated development
	should either support the construction or
	operation of the principal development or help
	address its impacts. It should not be an aim in
	itself but should be subordinate to the principal
	development
BEIS	Department for Business, Energy, and Industrial
	Strategy
ССР	Carbon capture plant
CCGT	Combined cycle gas turbine
CCUS	Carbon capture usage and storage



СЕМР	Construction and Environmental Management Plan
DCO	A Development Consent Order made by the relevant Secretary of State pursuant to the PA 2008 to authorise a NSIP. A DCO can incorporate or remove the need for a range of consents which would otherwise be required for a development. A DCO can also include powers of compulsory acquisition
EIA	Environmental Impact Assessment - the assessment of the likely significant environmental effects of a development, undertaken in accordance with the EIA Regulations
EIA Regulations	Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (as amended) setting out how the environmental assessment of NSIPs must be carried out and the procedures that must be followed
Electricity Generating Station (or	A new electricity generating station fuelled by
CCGT / Low Carbon Electricity	natural gas and with a gross output capacity of up
Generating Station)	to 860 megawatts
EPC Contractor	Engineering, Procurement and Construction contractor who will undertake the detailed engineering design, procurement and deliver the construction of the Proposed Development
ES	Environmental Statement, documenting the findings of the EIA
ExA	Examining Authority
Land Plans	The plans showing the land that is required for the Proposed Development, and the land over which interests or rights in land are sought as part of the Order
Limits of Deviation	The limits shown on the Works Plans within which the Proposed Development may be built
NSIP	Nationally Significant Infrastructure Project that must be authorised by the making of a DCO under PA 2008
NZT Power	Net Zero Teesside Power Limited
NZNS Storage	Net Zero North Sea Storage Limited
NZT	Net Zero Teesside - the name of the Proposed Development.
Open Space Land	The parts of the Order Land which are considered to be open space for the purposes of section 132 of the PA 2008 and as shown hatched blue on the Land Plans



Order	The Net Zero Teesside Order heing the DCO that
Oluei	The Net Zero Teesside Order, being the DCO that would be made by the Secretary of State
	authorising the Proposed Development, a draft of
	which has been submitted as part of the
	Application
Order Land	The land which is required for, or is required to
	facilitate, or is incidental to, or is affected by, the
	Proposed Development and over which powers of
	compulsory acquisition are sought in the Order
Order Limits	The limits of the land to which the Application
	relates and shown on the Land Plans and Works
	Plans within which the Proposed Development
	must be carried out and which is required for its
	construction and operation
PA 2008	The Planning Act 2008 which is the legislation in
	relation to applications for NSIPs, including
	preapplication consultation and publicity, the
	examination of applications and decision making
	by the Secretary of State
PCC Site	Power, Capture and Compression Site - the part
	of the Site that will accommodate the Electricity
	Generating Station, along with the CCP and high-
	pressure compressor station
Proposed Development (or Project)	The development to which the Application relates
	and which requires a DCO, and as set out in
	Schedule 1 to the Order
Requirements	The 'requirements' at Schedule 2 to the Order
	that, amongst other matters, are intended to
	control the final details of the Proposed
	Development as to be constructed and to control
	its operation, amongst other matters to ensure
	that it accords with the EIA and does not result in
	unacceptable impacts
Site (or Proposed Development Site)	The land corresponding to the Order Limits which
(1 1,111,111,111,111,111,111,111,111,111	is required for the construction and operation of
	the Proposed Development
Sacc	Statement of Common Ground
SoCG	Statement of Common Ground
Section 35 Direction	The direction under section 35 of the PA 2008
	dated 17 January 2020 from the SoS that the
	Specified Elements together with any
	matters/development associated with them
	should be treated as development for which



	development consent under the PA 2008 is required
SoS	The Secretary of State - the decision maker for DCO applications and head of Government department. In this case the SoS for the Department for Business, Energy, and Industrial Strategy
Specified Elements	Those elements of the Proposed Development that, by virtue of the Section 35 Direction, are to be treated as development for which development consent under the PA 2008 is required being: the CO2 gathering network, including the CO2 pipeline connections from the proposed CCGT Electricity Generating Station and industrial facilities on Teesside to transport the captured CO2 (including the connections under the tidal River Tees), a high-pressure carbon dioxide compressor station to receive captured CO2 from the CO2 gathering network, and a section of the CO2 transport pipeline for the onward transport of the captured CO2 to a suitable offshore geological storage site
STDC	South Tees Development Corporation
Work No.	Work number, a component of the Proposed Development, described at Schedule 1 to the Order
Works Plans	Plans showing the numbered works referred to at Schedule 1 to the Order and which together make up the Proposed Development



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1.0 INTRODUCTION

Overview

- 1.1.1 This Statement of Common Ground (Document Ref. 8.12) has been prepared by Net Zero Teesside Power Limited and Net Zero North Sea Storage Limited (the 'Applicants') in conjunction with Northumbrian Water Ltd ("NWL") in respect of the Net Zero Teesside Project (the 'Proposed Development').
- 1.1.2 The SoCG relates to the application (the 'Application') that has been submitted to the Secretary of State ('SoS') for Business, Energy and Industrial Strategy, under Section 37 of 'The Planning Act 2008' (the 'PA 2008'), seeking development consent for the Proposed Development. The Application was accepted for Examination by the SoS on 16th August 2021.
- 1.1.3 The SoCG sets out the matters of agreement between the Applicants and NWL and also explains those matters which, at the time of writing, remain unresolved between the parties.
- 1.1.4 The agreements to date have been reached through consultation and continuing discussions between the parties, including interface meetings and regular face to face discussions.

Description of Proposed Development

- 1.1.5 The Proposed Development will work by capturing CO₂ from a new gas-fired power station in addition to a cluster of local industries on Teesside and transporting it via a CO₂ transport pipeline to the Endurance saline aquifer under the North Sea. The Proposed Development will initially capture and transport up to 4Mt of CO₂ per annum, although the CO₂ transport pipeline has the capacity to accommodate up to 10Mt of CO₂ per annum thereby allowing for future expansion.
- 1.1.6 The Proposed Development comprises the following elements:
 - Work Number ('Work No.') 1 a Combined Cycle Gas Turbine electricity generating station with an electrical output of up to 860 megawatts and postcombustion carbon capture plant (the 'Low Carbon Electricity Generating Station');
 - Work No. 2 natural gas supply connections and Above Ground Installations ('AGIs') (the 'Gas Connection');
 - Work No. 3 an electricity grid connection (the 'Electrical Connection');
 - Work No. 4 water supply connections (the 'Water Supply Connection Corridor');
 - Work No. 5 wastewater disposal connections (the 'Water Discharge Connection Corridor');
 - Work No. 6 a CO₂ gathering network (including connections under the tidal River Tees) to collect and transport the captured CO₂ from industrial emitters



(the industrial emitters using the gathering network will be responsible for consenting their own carbon capture plant and connections to the gathering network) (the 'CO₂ Gathering Network Corridor');

- Work No. 7 a high-pressure CO₂ compressor station to receive and compress
 the captured CO₂ from the Low Carbon Electricity Generating Station and the
 CO₂ Gathering Network before it is transported offshore (the 'HP Compressor
 Station');
- Work No. 8 a dense phase CO₂ export pipeline for the onward transport of the captured and compressed CO₂ to the Endurance saline aquifer under the North Sea (the 'CO₂ Export Pipeline');
- Work No. 9 temporary construction and laydown areas, including contractor compounds, construction staff welfare and vehicle parking for use during the construction phase of the Proposed Development (the 'Laydown Areas'); and
- Work No. 10 access and highway improvement works (the 'Access and Highway Works').
- 1.1.7 The Electricity Generating Station, its post-combustion carbon capture plant and the CO₂ compressor station will be located on part of the South Tees Development Corporation ('STDC') Teesworks area (on part of the former Redcar Steel Works Site). The CO₂ export pipeline will also start in this location before heading offshore. The Electricity Generating Station connections and the CO₂ gathering network will require corridors of land within both Redcar and Stockton-on-Tees, including crossings beneath the River Tees.

Northumbrian Water Ltd (NWL) Interests

- 1.1.8 NWL interests are understood to be as follows:
 - Land where NWL is either occupier, tenant or lessee and/or has access to for their own operations and maintenance
 - Land that contains NWL apparatus required for delivery of raw and potable water
 - Land that contains NWL apparatus for the collection of sanitary waste
 - As a supplier of raw water and potable water to the Applicants' Proposed Development located at Teesworks
 - As a wastewater treatment plant (WwTP) operator able to treat some of the Applicants' effluents should a mutually agreeable Effluent Management Contract be put in place
- 1.1.9 NWL apparatus is located both on the north bank of the River Tees, under the Tees and also on the south bank of the River Tees. The Applicants' DCO Order Limits include a number of these assets.

The Purpose and Structure of this Document

1.1.10 The purpose of this document is to summarise the agreements reached between the parties on matters relevant to the Examination of the Application and to assist the



Examining Authority ('ExA'). It also explains the matters which remain unresolved at the time of writing, but which both parties are working positively toward resolving. As such, it is expected that further iterations of the SoCG will be submitted to the ExA throughout the Examination and prior to the making of any Development Consent Order ('DCO') for the Proposed Development.

- 1.1.11 The SoCG has been prepared with regard to the guidance in 'Planning Act 2008: examination of application for development consent' (Department for Communities and Local Government, March 2015).
- 1.1.12 The SoCG is structured as follows:
 - Section 2 sets out consultation and related discussions held between the Applicants and Northumbrian Water Ltd
 - Section 3 sets out the matters discussed and agreed to date.
 - Section 4 sets out matters to be agreed and the proposed way forward.



2.0 SUMMARY OF CONSULTATION AND DISCUSSIONS

Overview

2.1.1 This section provides a summary of how the Applicants have consulted NWL on the Proposed Development and also sets out the discussions that have taken place between the parties.

Consultation

2.1.2 **Table 2.1** (below) provides a summary of how the Applicants have consulted NWL and how NWL have responded to that consultation.

Table 2.1: Summary of Consultation

Consultation Stage/Date	NWL Response
Stage 1 Consultation (non- statutory) – 2 nd October to 19 th November 2019	N/A
Stage 2 Consultation (statutory) – 7 th July to 18 th September 2020	N/A
Section 42 Update Consultation – 7th December 2020 to 25 th January 2021 (further targeted consultations held 12 th February to 16 th March 2021 & 26 th March to 3 rd May 2021)	NWL mentions domestic and sanitary waste can be accepted at Bran Sands but can only take a limited supply of other effluents from the Applicants. NWL are concerned about the location of the CO2 pipelines and the proximity to NWL's existing apparatus such as raw and potable water mains and the Bran Sands WwTP. NWL would like to be consulted on HSE aspects of the CO2 pipeline and also need full access to their own assets. NWL expects the applicants to consult NWL on the easements.
Consultation on proposed changes to DCO Application – 10 th March to 14 th April 2022	N/A

Discussions

2.1.3 A summary of the detailed discussions that have taken place between the parties is set out in the table below. Where appropriate, email follow-up has taken place to provide each party with information to support the progression of discussions.

Table 2.2: Summary of Discussion

Meeting Date	Meeting Type	Topics Discussed
Feb 2020	Data gathering –	General Proposed Development background plus water
	Bran Sands WwTP	needs and effluent treatment needs for NZT. Information

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		,	
		requested from NWL to support the Applicants in the early	
		phase of the Proposed Development.	
Jan 2021	Introductions	Proposed Development update, water resources and	
		planning	
Jan 2021	Follow-up	NZT follow-up on water supply and treatment of effluent.	
		Action log prepared	
June 2021	Technical on-site	Treatability trials scoping and timing, potential tie-in points	
July 2021	Treatability KO	Treatability trial kick off meeting	
Oct 2021	Follow-up	Treatability results updates	
Dec 2021-	Pogular undatos	Further testing, initial HOTs, initial commercial discussions	
Mar 2022 Regular updates		Further testing, initial nots, initial commercial discussions	
Mar 2022	Pre-Consultation	Proposed changes to DCO and Relevant Representation	
April 2022	Interface meeting	Treatment trials, DCO update	
August 2022	Workshop	Technical and commercial workshop on water supply and	
		effluent treatment	
September	Bran Sands WwTP	Joint NWL and Applicants site visit to view the proposed	
2022	site visit	treatment works and pipeline routeing	
May -October	Fortnightly	Wastewater treatment, water supply, DCO progress	
2022	interface meetings	wastewater treatment, water supply, DCO progress	



3.0 MATTERS AGREED

3.1.1 **Overview**

This section sets out the matters agreed between the parties.

3.1.2 Principle of the Proposed Development

There is an urgent need for the Proposed Development, relating both to the provision of low carbon electricity and the need to provide for the collection, compression and transport of carbon dioxide from a range of emitters in the Teesside area.

3.1.3 Protective Provisions

The parties are progressing protective provisions. Whilst not yet in agreed form, the parties have agreed to base the provisions on NWL's preferred bespoke provisions, and expect agreement to be reached during the Examination. The parties' expectation is that the protective provisions and any side agreement will provide the appropriate protection to NWL's apparatus and operations.

3.1.4 **NWL Existing Apparatus**

Both the Applicants and NWL have agreed to continue engagement during the design of the Proposed Development in order to minimise and/or mitigate the impact it will have on NWL existing apparatus.

The Applicants and their nominated contractor are in active discussions with NWL. As part of these discussions NWL has shared details of the locations of their existing apparatus via RFIs. This data is being utilised by the Applicants to influence the routeing and construction methodology of all physical interactions between NWL apparatus and the Proposed Development.

3.1.5 Wastewater Treatment

In 2021 the Applicants engaged with NWL to undertake treatment trials of the potential effluent stream from the carbon capture plant. A treatment trial was carried out by NWL under a Purchase Order from the Applicants, using a synthetic sample of the effluent stream. The trial was completed in three stages to allow NWL to determine the feasibility of the Bran Sands WwTP treating the effluent and the limits of the system.

The treatment trials have been completed and the final report concludes that there are no significant issues posed with processing the waste stream. The sample and forecast volumes could be accommodated within the existing Bran Sands WwTP facility and operational capacity.

The results are based on the simulated wastewater sample provided to NWL in 2021. The sample is still considered representative. It was produced based on the Applicants' understanding of what the wastewater would contain, using information obtained from pre-FEED design and engineering work, and it included conservative ammonia concentrations compared to the pre-FEED design basis



The Applicants shared conservative foul water volumes for construction and operation with NWL in July 2022. NWL will assess these volumes against available capacity at Marske-by-the-Sea STW, however both parties currently understand that the volumes are low in comparison to those required during the operation of the former steel works on the Teesworks site.

3.1.6 Raw & Potable Water

The Applicants and NWL have been in discussion on raw and potable water demand for the Proposed Development. In June 2022, the Applicants provided NWL with conservative raw and potable water volumes for construction and operation of the Proposed Development. In July 2022, NWL confirmed that following network analysis the conservative estimated water volumes are within NWL's available capacity, although investigations into the required infrastructure are continuing to confirm if additional investment is required.

3.2 Project Plan

NWL have generated a project plan outlining the next steps required to progress with the detailed technical activities and commercial agreements. The project plan consists of a schedule for 2022 and 2023, demonstrating the tasks to be completed to support the Proposed Development. shows This plan is under review by the Applicants.

No significant issues have been identified by either party that would prevent NWL from supporting the Proposed Development. There are a number of remaining details to be addressed that will be subject to detailed design and commercial agreements.

3.2.1 Side Agreement and annexed protective provisions

The Parties have agreed the form of the Side Agreement annexing bespoke protective provisions. The Parties will now seek to obtain final internal sign-off before proceeding to sign and complete the Side Agreement and annexed protective provisions.



4.0 MATTERS TO BE AGREED

4.1.1 Overview

This section sets out matters to be agreed between the parties and the proposed way forward.

4.1.2 Land where NWL is either occupier, tenant or lessee and/or has access to for their own operations and maintenance

NWL continues to assess whether any of its own operations maintenance requirements, including access to the Brans Sands WwTW, are unduly impacted by the Proposed Development and discussions are continuing in this regard with the Applicants.

4.1.3 Detailed design and commercial agreements

Subject to the outcome of the further investigations, detailed design and commercial agreements mentioned below, no significant issues have been identified by either party that would prevent NWL from supporting the Proposed Development with wastewater treatment. There are a number of remaining details to be addressed that will be subject to detailed design and commercial agreements, and the parties are continuing to negotiate these arrangements. These have been included in the project plan developed by NWL that will be used going forward to progress discussions.