

# H2Teesside Project

Planning Inspectorate Reference: EN070009

Land within the boroughs of Redcar and Cleveland and Stockton-on-Tees, Teesside and within the borough of Hartlepool, County Durham

The H2 Teesside Order

Document Reference: 8.43 Saltholme Interaction Report

Planning Act 2008



**Applicant: H2 Teesside Ltd**

Date: February 2025

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## TABLE OF CONTENTS

<b>1.0</b>	<b>INTRODUCTION</b> .....	<b>3</b>
1.1	Background .....	3
1.2	The Purpose and Structure of this Document .....	3
<b>2.0</b>	<b>CONSULTATION BACKGROUND</b> .....	<b>4</b>
2.1	Introduction .....	4
2.2	Summary of consultation and engagement with NGET .....	5
<b>3.0</b>	<b>ALTERNATIVES CONSIDERED</b> .....	<b>12</b>
3.1	Clarification on the ‘Cowpen Bewley’ Pipeline .....	12
3.2	Route Development for the Hydrogen Pipeline near Saltholme Substation .....	12
<b>4.0</b>	<b>PIPELINE SAFETY</b> .....	<b>17</b>
4.1	Introduction .....	17
4.2	Pipeline ‘Doubling Up’ .....	18
4.3	Pipeline Safety Regulations 1996 .....	18
<b>5.0</b>	<b>ALTERNATIVE SUBSTATION DESIGNS</b> .....	<b>19</b>
5.1	Background .....	19
5.2	Alternative substation layouts .....	23
5.3	Conclusion .....	25

## FIGURES

Figure 3.1:	Designated Land around Saltholme Substation .....	14
Figure 3.2:	Existing Assets and Utilities around Saltholme Substation .....	15
Figure 3.3:	Pipeline route map for the area around Saltholme Substation .....	16
Figure 5.1 –	NGET Preferred Option 1A .....	19
Figure 5.2:	Planning Layout of Saltholme Substation (2020) .....	20
Figure 5.3:	Location Plan of Saltholme Substation (2020) .....	20
Figure 5.4:	OHL Circuits at Saltholme Review of NGET’s 275kV Saltholme Substation Expansion Design Alternatives .....	21
Figure 5.5:	Alternative Layout – Phase 1 .....	23
Figure 5.6:	Alternative Layout – Phase 2 .....	25

## APPENDICES

**APPENDIX 1: INTRODUCTORY LETTER TO NGET’S APPOINTED AGENTS REQUESTING  
ACCESS FOR A NON-INTRUSIVE SURVEY RELATING TO THE PROPOSED DEVELOPMENT  
AND REQUEST FOR A FACE TO FACE OR VIRTUAL MEETING**

**APPENDIX 2: LETTER, LAND PLANS AND LIQ ISSUED TO NGET, 10 FEBRUARY 2023**

**APPENDIX 3: LIQ CHASER LETTER ISSUED TO NGET, 21 MARCH 2023**

**APPENDIX 4: LIQ CHASER EMAIL ISSUED AND RESPONSE FROM NGET, 01 JUNE 2023**

**APPENDIX 5: LIQ CHASER LETTER ISSUED TO NGET, 22 JUNE 2023**

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**APPENDIX 6: FIRST CONSULTATION NOTIFICATION LETTER ISSUED TO NGET, 14 SEPTEMBER 2023**

**APPENDIX 7: NGET FIRST CONSULTATION RESPONSE, 20 OCTOBER 2023**

**APPENDIX 8: SECOND CONSULTATION NOTIFICATION LETTER ISSUED TO NGET, 13 DECEMBER 2023**

**APPENDIX 9: NGET SECOND CONSULTATION RESPONSE, 22 JANUARY 2024**

**APPENDIX 10: SECTION 56 NOTIFICATION LETTER ISSUED TO NGET, 20 MAY 2024**

**APPENDIX 11: CONSULTATION ON PROPOSED CHANGES TO THE DCO APPLICATION LETTER ISSUED TO NGET, 4 SEPTEMBER 2024**

**APPENDIX 12: CONSULTATION FOR THE CHANGE REQUEST PURSUANT TO THE CA REGS LETTER, 25 OCTOBER 2024**



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## **1.0 INTRODUCTION**

### **1.1 Background**

1.1.1 This document has been prepared on behalf of H2Teesside Limited (the 'Applicant'). It relates to an application (the 'Application') for a Development Consent Order (a 'DCO'), that was submitted to the Secretary of State for Energy Security and Net Zero ('DESNZ') on 25 March 2024, under Section 37 of the Planning Act 2008 (the 'PA 2008') in respect of the H2Teesside Project (the 'Proposed Development').

1.1.2 The Application has been accepted for examination. The Examination commenced on 29 August 2024.

### **1.2 The Purpose and Structure of this Document**

1.2.1 This document provides a summary of the consultation undertaken relating to the pipeline routing around the Saltholme substation; a discussion of the alternative routing considered at the pre-FEED design phase and why these were discounted; a brief discussion of the pipelines safety regulations process that will be followed to address NGET's safety concerns; and concludes with analysis by the Applicant that demonstrates a 'compromise solution' whereby both projects can be constructed is eminently possible and therefore that no serious detriment is caused to NGET's undertaking.

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## 2.0 CONSULTATION BACKGROUND

### 2.1 Introduction

2.1.1 This section summarises the consultation and engagement that H2Teesside Limited (the Applicant) has undertaken with National Grid Energy Transmission plc (NGET) in relation to the H2Teesside Project (the Proposed Development) and how feedback received to date has been taken into consideration.

#### Summary of consultation and engagement undertaken

2.1.2 In developing plans for the Proposed Development, the Applicant has undertaken five consultations, the details of which are summarised below:

- **First consultation – 14 September to 26 October 2023.**  
Undertaken on the Proposed Development in accordance with Sections 42, 47 and 48 of the Planning Act 2008 (PA 2008).
- **Second consultation – 13 December 2023 to 23 January 2024.**  
Further consultation on the Proposed Development in respect of a number of changes to the proposed Order Limits following further design development and technical assessments and also in response to feedback received to the first consultation. This second consultation was also undertaken in accordance with Sections 42 and 48 of the PA 2008. At the same time a letter was issued to the local community living within the vicinity of the Site providing information on the proposed changes and including a non-statutory community update.
- **Additional consultation – mid-January to early March 2024.**  
Consultation with a number of additional parties, including land ownership interests, who had been identified following the second consultation. This consultation was undertaken in accordance with Section 42 of the PA 2008.
- **Targeted Cowpen Bewley consultation – early February to early March 2024.** Targeted Section 42 consultation with a number of landowners and non-statutory consultation with the local community within the vicinity of Cowpen Bewley village, near Billingham, relating to changes to the hydrogen pipeline corridor in this location and also proposals to provide replacement open space land within the vicinity of Cowpen Bewley Woodland Park.
- **Consultation on first set of proposed changes to the DCO application – 6 September to 7 October 2024.** Non-statutory consultation on 14 proposed changes to the Proposed Development following further engagement with interested parties and ongoing project design work.

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- 2.1.3 NGET was directly notified of the first and second consultations undertaken prior to the submission of the DCO application and subsequently notified of the consultation on the first set of proposed changes to the DCO application during the Examination process.
- 2.1.4 A full summary of the first four consultations can be found in the Applicants Consultation Report (Document Reference 5.1), which summarises how the consultations were delivered, the feedback received and how the Applicant took into consideration the substantive matters raised.
- 2.1.5 Details of the consultation on the proposed changes to the DCO application can be found in the Consultation Statement (Document Reference 7.5) which also summarises how the consultation was delivered, the feedback received and how the Applicant took into consideration the substantive matters raised.
- 2.1.6 In addition to the five formal consultations, the Applicant has sought to engage with interested parties and stakeholders on the Proposed Development. A summary of this ongoing engagement is also presented in this document, with further detail available in the Consultation Report and Consultation Statement.

## **2.2 Summary of consultation and engagement with NGET**

- 2.2.1 This section summarises the how the Applicant has consulted and engaged NGET during the development of its proposals for H2Teesside.
- 2.2.2 Details are presented in chronological order and include both formal consultation and ongoing engagement. The exception to this is the engagement undertaken with NGET in relation to land agreements. This has been summarised in one section so these ongoing negotiations can be presented in a consolidated manner.

### **Initial engagement**

- 2.2.3 On the 26 of August 2022 Dalcour Maclaren (DM) acting as land agents for the Applicant, issued an introductory letter to NGET's appointed agents requesting access for a non-intrusive survey relating to the Proposed Development and requested a face to face or virtual meeting. The letter also let NGET know that they would be contacted by Ardent Management Limited (Ardent), also acting in the capacity as land agents for the Applicant, to provide more information on the Proposed Development. A copy of this letter is provided in Appendix 1.
- 2.2.4 On 10 February 2023 Ardent issued a letter to NGET requesting information regarding land interests related to the Proposed Development.
- 2.2.5 The letter provided a summary of the Proposed Development and enclosed plans that highlighted land that may be affected by the scheme. A Land Interest Questionnaire (LIQ) was also included with the letter with a request for NGET to complete and return within 14 days. A copy of the letter, enclosed plans and LIQ is provided in Appendix 2.
- 2.2.6 On 21 March 2023, Ardent wrote to NGET requesting the completed Land Interest Questionnaire along with copies of any marked-up plans identifying their assets be

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- returned using the pre-paid envelope provided. A copy of this follow-up letter is provided in Appendix 3.
- 2.2.7 On 1 June 2023, Ardent emailed the NGET land enquiry email address referencing the two previous letters noting Ardent cannot be held responsible if any associated interests and/or rights are missing from the final DCO submission.
- 2.2.8 On 1 June 2023 National Grid responded confirming they will collate a response on behalf of NGET as soon as possible. A copy of this email correspondence can be found in Appendix 4.
- 2.2.9 On 22 June 2023, Ardent again wrote to NGET referencing the previous letter on 10 February 2023 and requested the completed Land Interest Questionnaire along with any marked-up plans are returned using the pre-paid envelope which had been provided. A copy of this follow-up letter is provided in Appendix 5.
- First consultation, 14 September to 26 October 2023**
- 2.2.10 The first consultation on the Proposed Development ran in accordance with Sections 42, 47 and 48 of the PA 2008 from 14 September to 26 October 2023.
- 2.2.11 NGET was notified of the consultation by letter issued via Royal Mail First Class post on 14 September 2023. A copy of the consultation letter is provided in Appendix 6.
- 2.2.12 The consultation letter provided a summary of the Proposed Development, a link to the project website where the consultation documents were made available, included reference to the date by which responses should be submitted to the Applicant along with details of how to respond or contact the Applicant with any questions.
- 2.2.13 NGET responded to the first consultation on 20 October 2023.
- 2.2.14 NGET's response provided comments regarding the infrastructure within or in close proximity to the red line boundary of the Proposed Development – particularly regarding the high voltage electricity overhead transmission lines, underground cables and a high voltage substation in the scoping area. NGET requested to be consulted at the earliest stages to ensure the most appropriate protective provisions are included within the DCO application to safeguard the integrity of their apparatus.
- 2.2.15 A full copy of the response can be found in Appendix 7.
- 2.2.16 The Applicant's response to NGET's feedback is set out in the Consultation Document and states that the Applicant would adhere to the comments on standards and guidelines provided by National Grid for works in proximity to its infrastructure. As a result of the comments provided in relation to the Proposed Development, The Applicant made amendments to the Order Limits in proximity to NGET Apparatus. NGET was subsequently consulted on these revisions to the Proposed Development as part of the second consultation in December 2023 – see below.
- 2.2.17 At this time the Applicant also engaged with National Grid to initiate discussions around voluntary land agreements and discuss the inclusion of appropriate
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Protective Provisions for NGET's assets within the Proposed Development Order Limits. Further details of the ongoing engagement which has been undertaken with NGET in relation to land agreements is presented in more detail below.

#### Second consultation, 13 December 2023 to 23 January 2024

- 2.2.18 Following the first consultation the Applicant identified several changes to the Proposed Development and undertook a second consultation to seek feedback on these changes. The second consultation ran in accordance with Sections 42 and 48 of the PA 2008 from 13 December 2023 to 23 January 2024 and including a non-statutory community update.
- 2.2.19 NGET was notified of the consultation by letter issued via Royal Mail First Class post on 13 December 2023. A copy of the consultation letter is provided in Appendix 8.
- 2.2.20 The consultation letter provided a summary of the changes to the Proposed Development, a link to the project website where the consultation documents were made available, included reference to the date by which responses should be submitted to the Applicant along with details of how to respond or contact the Applicant with any questions.
- 2.2.21 NGET responded to the second consultation on 22 January 2024.
- 2.2.22 The response re-confirmed NGET's comments in response to the first consultation.
- 2.2.23 A full copy of the response can be found in Appendix 9.
- 2.2.24 The Applicant's response to NGET's feedback to the second consultation is set out in the Consultation Document and again states that the Applicant would adhere to the comments on standards and guidelines provided by National Grid for works in proximity to their infrastructure.

#### Additional consultation, mid-January to early March 2024

- 2.2.25 During the second consultation a number of additional parties, including land ownership interests, were identified. The Applicant therefore undertook an additional consultation from mid-January to early March 2024 to give these parties an opportunity to comment on the information on the Proposed Development shared during the second consultation.
- 2.2.26 NGET was not specifically consulted during this period as it had already been consulted on the information shared during the second consultation.

#### Targeted Cowpen Bewley consultation, early February to early March 2024

- 2.2.27 Following the first two rounds of consultation, the Applicant launched a targeted consultation with a number of landowners and a non-statutory consultation with the local community within the vicinity of Cowpen Bewley village, near Billingham. This targeted consultation specifically sought feedback on proposed changes to the hydrogen pipeline corridor near Cowpen Bewley and proposals to provide replacement open space land within the vicinity of Cowpen Bewley Woodland Park. The consultation ran from early February to early March 2024 and was conducted

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in accordance with Section 42 of the PA 2008 and included a non-statutory community update.

- 2.2.28 NGET was not specifically consulted during this period as it was not identified as having interests in the vicinity of the proposed changes to the pipeline corridor or replacement land.

**Section 56 Notification, 21 May 2024**

- 2.2.29 Following the Planning Inspectorate (PINS) acceptance of the DCO Application for examination on 22 April 2024 a formal notification ('the Section 56 notification') was sent to persons prescribed by the Secretary of State under Section 56 of the PA 2008 and related regulations which included NGET.
- 2.2.30 The Section 56 notification comprised a letter, notice ('The Section 56 notice') and location plan and was sent to NGET via Royal Mail First Class post on 21 May 2024.
- 2.2.31 The letter and notice provided further information on the Application and the Proposed Development and how the documents that comprise the application documents can be inspected. The letter and Section 56 notice provided instructions to submit a representation (giving notice of any interest in, or objections) about the Application using the form on the Planning Inspectorate's website. A copy of the Section 56 notification letter is provided in Appendix 10.
- 2.2.32 NGET did not provide a response directed to the Applicant, although NGET submitted a Relevant Representation [RR-024] which the Applicant responded to at Deadline 1 [REP1-007].

**Consultation on proposed changes to the DCO application, 6 September to 7 October 2024**

- 2.2.33 Following submission of the DCO application, the Applicant continued to engage with interested parties with a view to addressing their comments and agreeing common ground, while also continuing with project design work. This work identified a total of 14 proposed changes to the Proposed Development.
- 2.2.34 The Applicant notified the Examining Authority on 15 August 2024 of its intention to formally request a change to the application and confirmed it would carry out a non-statutory consultation on the proposed changes prior to making a formal Change Request.
- 2.2.35 A non-statutory consultation was undertaken with prescribed persons, including local authorities, statutory undertakers and persons with an interest in the land affected by the Project (those persons defined by Section 56 of the PA 2008), as well as certain other non-prescribed persons, on the proposed changes to the application. The consultation with these persons took place from 6 September to 7 October 2024.
- 2.2.36 NGET was notified of the consultation by letter issued via Royal Mail First Class post on 4 September 2024. A Copy of the consultation letter is provided in Appendix 11.
- 2.2.37 The consultation letter provided a summary of the proposed changes to the DCO application, a link to the project website where the consultation documents were

made available, included reference to the date by which responses should be submitted to the Applicant along with details of how to respond or contact the Applicant with any questions.

- 2.2.38 Following the Examining Authority's decision to accept the changes to the DCO application [PD-012], the Applicant consulted on the change related to the provision of additional land to facilitate the inclusion of an existing gas pipeline within the Order Limits of the DCO application which invoked the Infrastructure Planning (Compulsory Acquisition) Regulations 2010 ('CA Regulations'). The Applicant consequently consulted persons identified in Regulation 7 of the CA Regs which included NGET.
- 2.2.39 The consultation comprised a letter notice pursuant to Regulation 7 of the CA Regs and plan showing the additional land and was sent to NGET via Royal Mail first class post on 25 October 2024. The consultation provided a summary of the change and a description of the additional land a link to PINS project webpage where the documents were made available and how to make a Relevant Representation on the Change Application to PINS.
- 2.2.40 A copy of the consultation for the change request pursuant to the CA Regs letter is provided in Appendix 12.
- 2.2.41 No response was received from NGET to the consultation on the proposed changes to the DCO application or the consultation on the additional land in accordance with the CA Regs.

#### Summary of ongoing land agreement discussions

- 2.2.42 On 30 November 2023 DM first emailed NGET to organise a Heads of Terms introduction meeting. This meeting took place on 22 January 2024 with DM representatives and a representative from NGET and BNP Paribas who are NGET's appointed agents.
- 2.2.43 On 4 March 2024, Heads of Terms and an Option Plan were issued to BNP Paribas by DM.
- 2.2.44 On 25 March 2024, DM first approached NGET to request a point of contact with which to commence discussions on Protective Provisions. This contact was confirmed by NGET on 25 March 2024.
- 2.2.45 On 26 March 2024, NGET shared their six-step application for development process for NGET's non-operational land with the Applicant. The Applicant submitted stage one of this process, an application form, on 18 April 2024.
- 2.2.46 On 2 May 2024, NGET requested the plans for the Proposed Development on NGET's non-operational land to be shared as a KMZ file and this was subsequently provided.
- 2.2.47 On 16 May 2024, BNP Paribas requested the application form be updated to include details for invoicing the Applicant. The forms were resubmitted on 3 June 2024.



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- 2.2.48 On 4 June 2024, DM requested a meeting with BNP Paribas and NGET to discuss and progress Heads of Terms. On 4 June 2024, NGET rejected these discussions until step four of their application process is reached.
- 2.2.49 On 26 June 2024, a new contact at NGET requested further details on the Compulsory Acquisition Powers sought by the Applicant and the status of negotiations on land agreements. DM confirmed the previous contacts made with BNP Paribas, the submission of application forms and the issue of the Heads of Terms.
- 2.2.50 A meeting was held with NGET on 27 June 2024. During this meeting NGET raised their concerns about the Proposed Development's interference with their own plans to expand the substation. In an email following the meeting, NGET shared their draft Relevant Representation.
- 2.2.51 On 4 July 2024, Ardent, acting on behalf of NGET, confirmed that design work had not yet commenced on the expansion of the substation so further details could not be shared.
- 2.2.52 On 9 September 2024, Ardent, on behalf of NGET, request a meeting with DM and the Applicant to discuss any further advances in the design of the Proposed Development. The Applicant accepted the meeting and reiterated the request for NGET's expansion plans for the substation ahead of the meeting taking place.
- 2.2.53 A meeting took place on 16 September 2024. NGET reiterated their objection to the Proposed Development and its impacts on their status as a Statutory Undertaker. NGET request that a log of historical correspondence regarding the Proposed Development be shared.
- 2.2.54 On 11 November 2024 a further meeting took place to discuss the interface between the two proposals.
- 2.2.55 On 13 December 2024, DM requested NGET's comments on the Heads of Terms. NGET responded to inform DM that they did not believe that the Heads of Terms could form the basis of an agreement and that NGET would be in attendance at the Compulsory Acquisition Hearing.
- 2.2.56 On 7 January 2025, a technical meeting was held between NGET and the Applicant to discuss the technical interface between the two projects in an effort to find a compromise solution that worked for both parties.
- 2.2.57 On 9 January 2025, NGET requested a meeting to re-engage on Land Agreement discussions.
- 2.2.58 On 16 January 2025, a meeting took place during which NGET and their appointed agent, BNP Paribas, re-outlined the six-step application process to DM. The process for agreeing survey access was also outlined. A second meeting was then held to discuss potential technical solutions to minimise disruption to NGET's land interests.
- 2.2.59 DM on behalf of the Applicant, submitted a new development application form to BNP Paribus and NGET on 30 January 2025.
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- 2.2.60 The Applicant met with NGET on 31 January 2025 to discuss how to progress and obtain the relevant approvals for NGET’s “compromise design” solution.
- 2.2.61 The Applicant met with NGET on 4 February 2025 where NGET informed the Applicant of NGET’s conclusion that the “compromise design” in their opinion, ‘does not work’ and negotiations ceased.

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## 3.0 ALTERNATIVES CONSIDERED

### 3.1 Clarification on the ‘Cowpen Bewley’ Pipeline

#### Section 3.6 “Other Solutions” of National Grid Deadline 7 submission (REP7-049)

3.1.1 In the Written Response to Deadline 7, Section 3.6, NGET have recognised the Applicant used the language that there are “other solutions” for the ‘Cowpen Bewley’ pipeline [REP7-049]. The Applicant would like to clarify the statement made in REP6A-018 relating to the ‘Cowpen Bewley’ pipeline. As per the Applicant’s Pipelines Statement [APP-035], the Applicant defines the pipeline through NGET land to the power station to the north as part of the ‘STDC and Seal Sands’ pipeline. This ends at an offtaker AGI which has no optionality; the location is fixed. There are no “other solutions” for the offtaker at the end of the ‘STDC and Seal Sands’ pipeline, which is considered part of the main hydrogen trunkline. The ‘Cowpen Bewley arm’ starts at this power station and runs north to the Cowpen Bewley AGI within the woodland park and does not cross NGET land.

3.1.2 The ‘Cowpen Bewley’ pipeline, using this definition, has the “alternative, though not preferred” options explained in REP6A-018. A clarified version of the statement made in REP6A-018 is as follows, with changes highlighted, using the terms ‘trunkline’ and ‘arm’ to mean pipelines to keep consistent language with the original statement: *The Applicant notes that any decision on such matters would **only** affect the **STDC and Seal Sands trunkline and the Cowpen Bewley arm** and would not materially affect the compelling case in the public interest for compulsory acquisition powers over the rest of the Order land. **For the STDC and Seal Sands trunkline, the loss of land near Saltholme Substation would result in the loss of a connection to hydrogen offtaker for The Applicant. For the Cowpen Bewley arm, as discussed in previous Examination submissions, in that situation, the Applicant would have an alternative, although not preferred, option to use the Billingham option for connection/blending to Project Union/regional hydrogen distribution network, and the Applicant does not rely solely on the Cowpen Bewley arm to make its case for the benefits of the Proposed Development – the remaining Hydrogen Distribution Network would still act as a catalyst to the decarbonisation of Teesside (and beyond where low carbon hydrogen is introduced to a grid/distribution network).***

### 3.2 Route Development for the Hydrogen Pipeline near Saltholme Substation

3.2.1 This section summarises the routing exercise during the Pre-FEED phase which led the Applicant to select the chosen project routing for the ‘STDC and Seal Sands’ pipeline near Saltholme Substation. It will explain how it is reasonable to consider at the time that there are no viable alternatives and therefore why only the selected route was included in the Order Limits. For discussion of the Cowpen Bewley Arm, please see paragraph 2.2.29 of the Second Change Application Report (REP7-011).

#### Route Selection Process per Pipeline Design Code Guidance

3.2.2 The Pipeline Design Code for Steel Pipelines for High Pressure Gas Transmission sets out the requirements for the route selection process. It defines three levels:

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- Level 1 – Route Corridor Selection;
- Level 2 – Preliminary Route Selection;
- Level 3 – Detailed Design.

3.2.3 Level 1 – Route Corridor Selection identifies the preferred route by considering options from possible alternatives between start and end points within an area of interest using suitably scaled maps (e.g. 1:10000 scale) and with the use of satellite photography.

3.2.4 The following constraints are specifically mentioned: avoid high density traffic routes, railways, overhead transmission lines, major pipelines, or other buried plant.

3.2.5 The following specific guidance is given to identify possible route corridors: pipeline start and finish points; a safe route corridor that avoids populated areas where reasonably practicable and takes account of constructability; any intermediate fixed points, avoidance as far as practicable any significant environmental, archaeological and future developments and of engineering constraints; the shortest distance between start and finish points bearing in mind the above criteria and implication for project costs; the requirements for minimum proximity distances between the pipeline and normally-occupied buildings.

#### Start, Finish and Fixed Points

3.2.6 The H2Teesside Hydrogen Production Facility is on the south side of the river Tees. The Tees Crossing is the relevant start point north of the Tees.

3.2.7 The relevant Finish points for this part of the pipeline are the power station north of Saltholme, the Cowpen Bewley Woodland Park AGI to the north, and Billingham offtakers to the west.

3.2.8 Routing through the existing Linkline corridors is preferred over routes which do not follow existing pipeline corridors. In buried sections, the shortest route is preferred around known constraints.

#### Constraints - Environmental

3.2.9 Route selection, which supported development of the Order Limits, was influenced by environmental constraints.

- 3.2.10 Land to the south, east and west of the substation is designated as part of the Teesmouth and Cleveland Coast SPA/Ramsar and Site of Special Scientific Interest (shown as 'SSSI' in Figure 3.1 below):

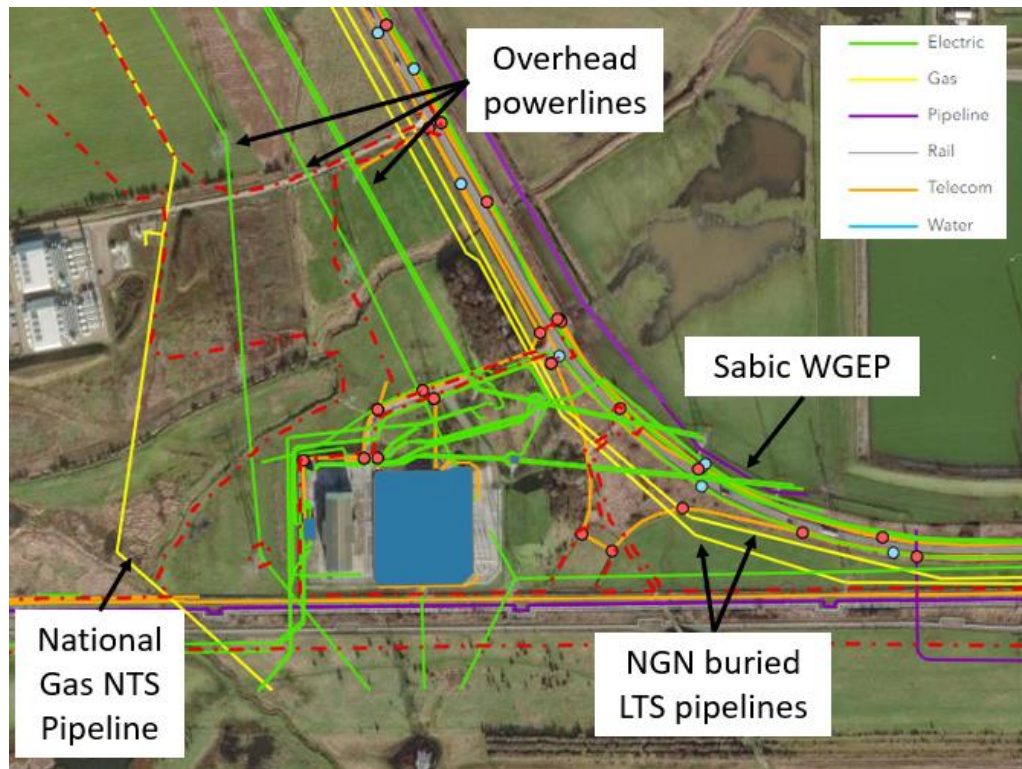


**Figure 3.1: Designated Land around Saltholme Substation**

- 3.2.11 These constraints should be seen in the context of the mitigation hierarchy and the relevant legislative and policy tests for designations such as these; and given that the H2Teesside project has no routing directly impacting protected areas (e.g. the Tees and Greatham Creek Crossings were designed using trenchless methods to avoid direct impacts and all other construction activities, permanent facilities and access are located outside SPA/Ramsar/SSSI).
- 3.2.12 As shown in Figure 3.1, there are areas around Saltholme without SPA/Ramsar/SSSI designation hence these were the focus of the remainder of the process.

### Constraints – Existing Assets

3.2.13 A schematic showing existing assets and utilities around the Saltholme substation site is shown in Figure 3.2Error! Reference source not found..



**Figure 3.2: Existing Assets and Utilities around Saltholme Substation**

3.2.14 Existing asset data was obtained through a Line Search Before You Dig (LSBUD) enquiry and desktop-based data collection. The site and surrounding area is noted to be highly constrained by exiting assets, notably (east to west):

- Buried Sabic WGEP pipeline
- A1185 road
- Buried NGN LTS 200 mm and 300 mm pipelines
- Buried Telecoms cables
- Overhead Powerlines to substation (rating up to 400 kV)
- Buried powerlines (ratings not known)
- National Gas NTS Pipeline

3.2.15 A Hydrogen pipeline route following the A1185 road to the east of Saltholme substation was discounted due to the existing buried 'LTS' gas pipelines, existing pylons, the substation access road and known buried services.

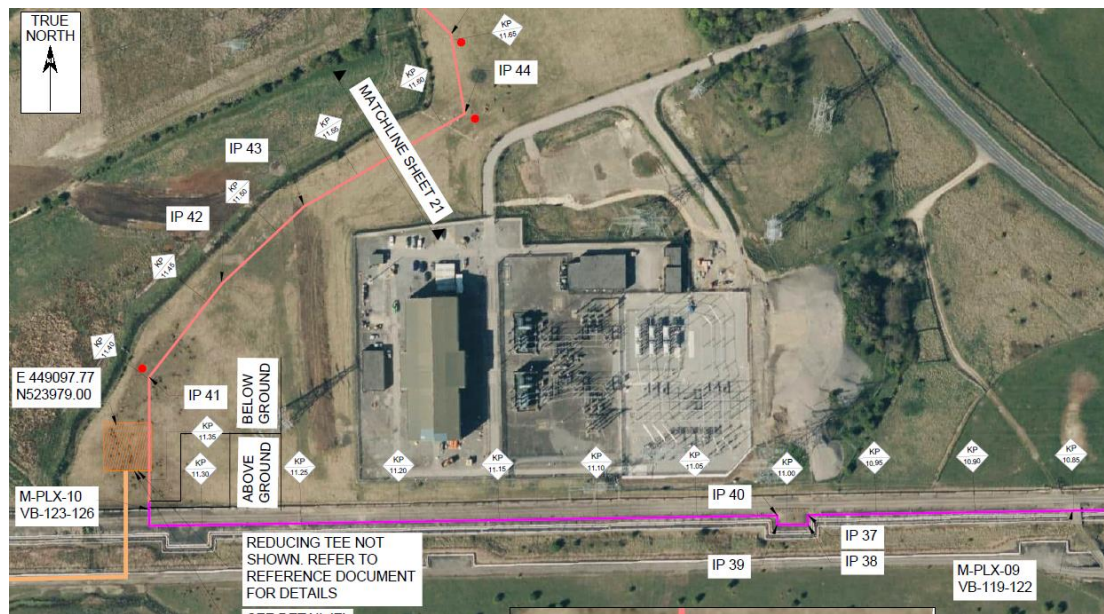
3.2.16 The presence of the existing above ground utilities and assets was verified by site visual survey carried out by the Engineering team. Further buried services have been identified, for example a buried cable between the substation and the nearby



power station, and buried water pipelines on the perimeter of NGET land, but these do not materially affect the above conclusion.

### Selected Route

3.2.17 The selected pipeline routing which supported development of the DCO Order Limits around Saltholme substation is shown in Figure 3.3. This route is subject to development as part of later Project phases. The above ground/below ground transition point for the pipeline is adjacent to the Linkline corridor, as the pipeline routed north is buried. The buried pipeline route follows the Western boundary of the NGET plot with a suitable offset from the SPA/Ramsar/SSSI. The SPA is demarked by a ditch. The pylon on NGET land is avoided.



**Figure 3.3: Pipeline route map for the area around Saltholme Substation**

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## 4.0 PIPELINE SAFETY

### 4.1 Introduction

4.1.1 In its Deadline 7 submission [REP7-049] NGET have proposed, *'a restriction on the exercise of any powers or rights pursuant to the Order until the Applicant has provided the following detail around pipeline safety to NGET's reasonable satisfaction.*

- *written evidence demonstrating that impressed voltages have been taken into account in the detailed design for the Authorised Development;*
- *written dispersion analysis covering all normal and abnormal pipeline operational scenarios in order to demonstrate that the separation distances between the Authorised Development and NGET's operational assets are acceptable and that any risks posed are As Low As Reasonably Practicable ("ALARP");*
- *written confirmation that all hazardous areas generated (e.g. Zone 0, Zone 1 or Zone 2) by the Authorised Development are contained within the site security fencing;*
- *written risk analysis covering full bore rupture and puncture releases showing the distances to the individual risk transects of  $1 \times 10^{-5}$  per year,  $1 \times 10^{-6}$  per year and  $3 \times 10^{-7}$  per year for the Authorised Development to demonstrate the risks posed are ALARP;*
- *written analysis on the Authorised Development located in the "Linkline corridor" running parallel to the existing third party above ground pipelines to determine the minimum separation distances required and the proposed mitigation measures to prevent escalation of a situation into a major emergency and to confirm the cumulative risk levels along the security fencing located to the south of Saltholme Substation from all the above ground pipelines (existing and proposed) for the various failure scenarios are acceptable and are ALARP; and*
- *written evidence of the operations and maintenance philosophy for the Authorised Development detailing how it will be commissioned, depressurised, purged, decommissioned.'*

4.1.2 NGET state the provision of this particular information is of, *'even greater importance given NGET's understanding that the hydrogen pipeline between Saltholme and Billingham could be significantly larger than the 200mm (8") diameter pipeline specified in the Pipelines Statement [APP-035]. A doubling of pipeline diameter in this area would likely increase the quantity of hydrogen requiring venting and, in turn, the potential for adverse impacts on NGET's operational assets.'*

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## **4.2 Pipeline ‘Doubling Up’**

4.2.1 Firstly, the Applicant would make it clear that what is proposed in the second Change Request [REP7-011] is not a doubling in pipeline diameter. When the Applicant refers to a ‘doubling up’ of pipelines what is proposed is that a return pipeline running to Billingham would be buried alongside the incoming pipeline carrying hydrogen to the AGI at the power station to the north.

## **4.3 Pipeline Safety Regulations 1996**

4.3.1 The Applicant would note that the pipeline will fall under the Pipeline Safety Regulations 1996 and as such the Applicant will be required to submit a Notification to the Health and Safety Executive before construction and prepare a Major Accident Prevention Document (MAPD) for the pipeline.

4.3.2 All of the above considerations will be covered in assessment completed to support the Notification and MAPD. This will need to demonstrate that the pipeline design has minimised risk to a level that is As Low As Reasonably Practicable (ALARP).

4.3.3 As such the Pipeline Safety Regulations regime is the appropriate means of regulating the safety of the hydrogen pipelines and it is unnecessary and inappropriate in principle to duplicate those controls in the DCO.

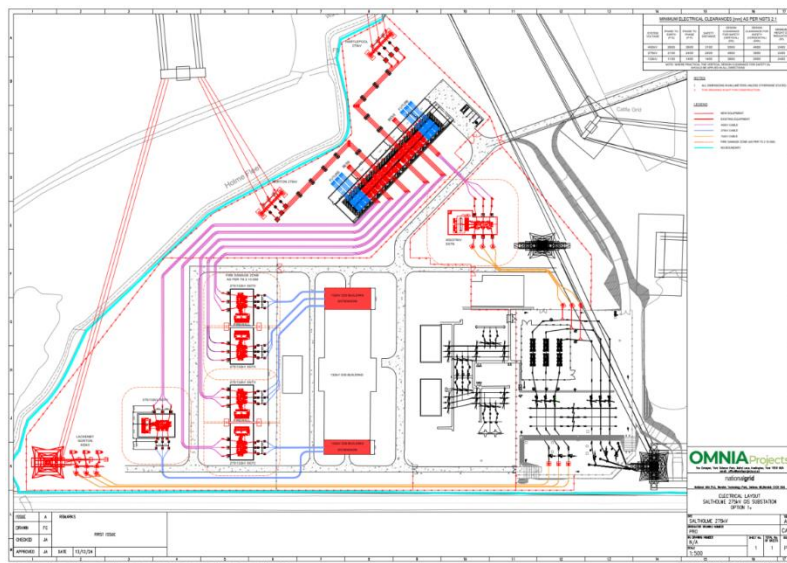


## 5.0 ALTERNATIVE SUBSTATION DESIGNS

### 5.1 Background

5.1.1 National Grid Electricity Transmission (NGET) has developed a preliminary plan for extension of the existing 275 kV substation at Saltholme to meet future network requirements. These are illustrated in their Engineering Constraints report (Ref: WHI/2026502.5720), part of NGET's Deadline 5 submission for the Applicant's Development Consent Order.

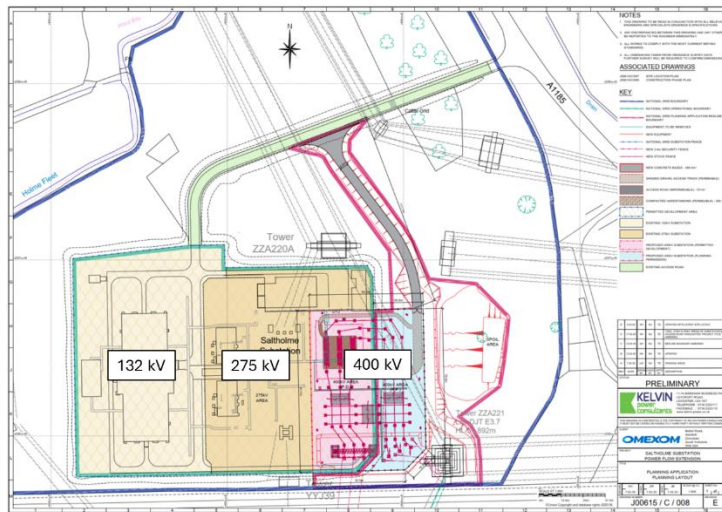
5.1.2 Their preferred option, designated Option 1A in the Report, is illustrated in Figure 5.1.



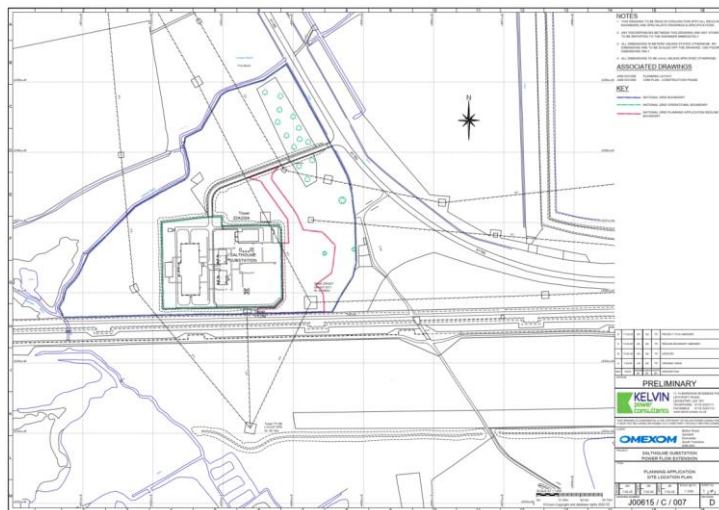
**Figure 5.1 – NGET Preferred Option 1A**

5.1.3 Saltholme substation is a Bulk Supply Point (BSP) where power is transferred from the 275 kV transmission network (operated by NGET) to the 132 kV distribution network (operated by Northern Power Grid – NPG). It is understood that the site was first established circa 1970 and originally accommodated a small outdoor compound accommodating 275 kV switchgear and 275/132 kV transformers next to a building accommodating 132 kV switchgear. The site has recently been extended by adding a 400 kV compound accommodating a 'smartwires' power flow control device; this is connected into a circuit which runs from Norton to Lackenby substations and does not interconnect with other HV equipment at Saltholme.

5.1.4 The three areas of the site are illustrated in the planning drawings for the extension submitted to Stockton-on Tees Borough Council (Figures 5.2 & 5.3).

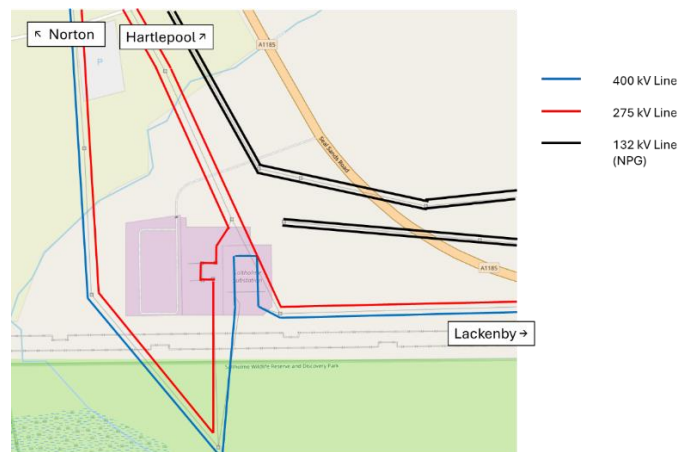


**Figure 5.2: Planning Layout of Saltholme Substation (2020)**



**Figure 5.3: Location Plan of Saltholme Substation (2020)**

5.1.5 Although the NGET site at Saltholme site is quite extensive, large parts of the site are sterilised by overhead line (OHL) circuits, which are operated by NGET (400/275 kV) and NPG (132 kV). These are illustrated in Figure 5.4.



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## Figure 5.4: OHL Circuits at Saltholme Review of NGET's 275kV Saltholme Substation Expansion Design Alternatives

### Applicant's understanding of NGET's design intent

5.1.6 After reviewing NGET's submission at Deadline 5 (Ref: WHI/2026502.5720), the Applicant has identified the following key design objectives for the Saltholme substation expansion:

1. Construction of a new 275kV GIS substation to:
  - Connect new Battery Energy Storage System (BESS) site to the Saltholme substation.
  - Distribute 275kV power from an overhead line upgraded from 275kV to 400kV via a new 400/275kV inter-bus transformer.
  - Supply the existing Northern Power Grid (NPG) 132kV substation through five new 275/132kV supergrid transformers (SGTs).
  - Connect two 275kV overhead lines to Norton and Hartlepool.
2. Upgrade the rating of the existing 275kV overhead line to 400kV
3. Establishment of two new 275kV overhead line connections to Norton and Hartlepool via two newly constructed gantries.

### Observations to NGET's three (3) proposed substation layout options

5.1.7 The Applicant notes that NGET's design includes five new 275/132kV supergrid transformers (SGTs), which will be connected to the new 275kV substation on one end and the existing (expanded) NPG substations on the other. This configuration is consistent across all three design options presented in WHI/2026502.5720.

### Reutilisation of existing 275/132kV transformer yard.

5.1.8 The Applicant understands that this arrangement will render the two existing NPG 275/132kV transformers obsolete, as power to the existing NPG 132kV substation will instead be supplied by the five new SGTs.

5.1.9 The Applicant observes that, in all three substation design options presented in TWHI/2026502.5720, NGET has not proposed to reutilize the existing transformer yard area (c.a. 110m x 65m) that will become obsolete following the decommissioning of the existing 275/132kV transformers.

5.1.10 The Applicant recognises that supplies to the NPG 132kV substation must be maintained at all times during the construction programme. However, it is clear that the same 275 kV circuits will be used to feed the new GIS substation as are currently feeding the legacy substation and thus the two cannot operate in parallel for a prolonged period of time.

5.1.11 The Applicant's view is that a phased approach could be taken, with the first two new 275/132 kV transformers replacing the existing units and subsequent units being sited in a reconstructed 275 kV compound. This is further explored in section 5.3.

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### Rationalisation of future bays allocation

- 5.1.12 Additionally, the Applicant notes that all proposed layout options include provisions for six spare or future bays, increasing the required footprint of the new 275kV switchyard. While acknowledging NGET's responsibility to future-proof its substations, the Applicant questions whether the proposed layouts would allow these spare bays to be effectively utilized in the future.
- 5.1.13 It is evident from the three design options that, due to the location of the future bays and the surrounding infrastructure—including new gas-insulated busbars and underground cables and the existing 275kV overhead transmission lines—that routing of connections to these future bays might be unviable.
- 5.1.14 Furthermore, NGET has identified in their constraints report (and as noted earlier in this report) that sites in the vicinity of Saltholme are subject to environmental constraints. This reinforces the Applicant's view above that future connection might be unviable and thus seems unlikely that six further connections (shown in blue on the drawing) will be required on top of the present contracted connections. If the number of spare bays were reduced, then a smaller GIS building could be constructed.

### Improving area utilisation by increasing 275/132kV supergrid transformer capacity

- 5.1.15 Whilst not explicitly stated, NGET has historically standardised on 275/132 kV transformers rated at 240MVA. The five units shown are thus expected to provide for a secure demand in excess of 720MVA (securing against a fault outage of one unit during a planned outage on a second).
- 5.1.16 The Applicant notes that the recent introduction of a 'standard' transformer with a 360MVA rating means that a secure capacity of 720MVA could be provided by only four transformers.
- 5.1.17 The Applicant believes that adopting this increased standard size would result in reduced number of supergrid transformers required to feed NPG's 132kV substation (from five to four), further optimising space requirement of the new substation.

### Improving cable spacing between new 275kV GIS substation and 275/132kV supergrid transformers

- 5.1.18 The 275 kV cables leading to the transformers are relatively low rated and thermal design of the cable routes should not be an issue. The NGET design shows the cable systems at  $\approx 4.3\text{m}$  centres, whereas the Applicant's experience is that cable laid in air in surface troughs can be satisfactorily installed at 1m centres or less.

### Summary

- 5.1.19 In light of these observations, the Applicant believes that the currently proposed layout options can be spatially further optimized. Such refinements would not only improve spatial efficiency but also facilitate the routing of the Applicant's hydrogen (H<sub>2</sub>) pipelines through the corridor.
- 5.1.20 In summary, the Applicant believes that the layout can be optimised by addressing following:

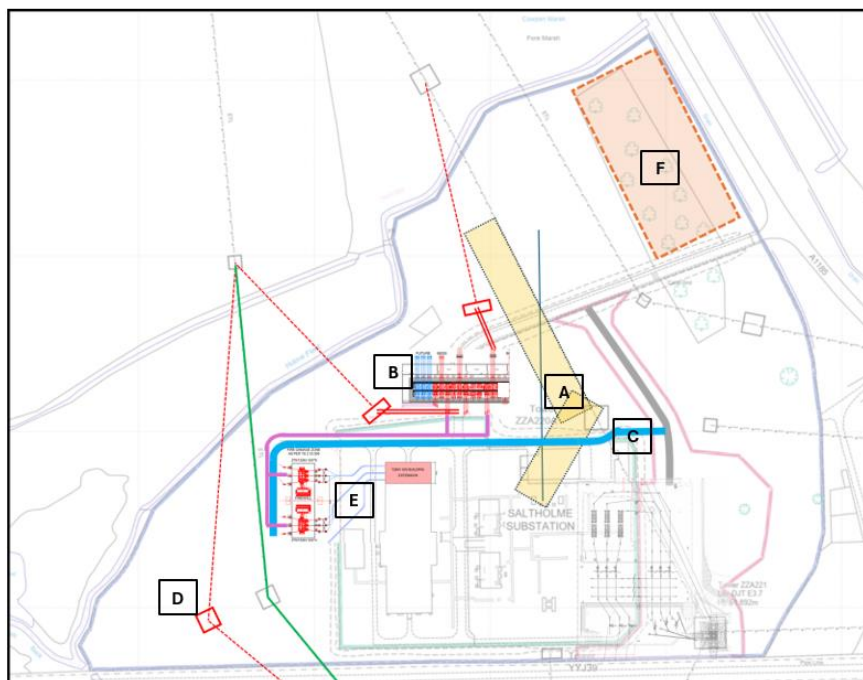
- Re-utilise the now-obsolete existing 275/132kV transformer yard to provide space for new equipment,
- Rationalise the number of future/spare bays,
- Increase the supergrid transformer capacity from 240MVA to 320MVA, allowing for reduction of total number of transformers,
- Reduce cable spacing from between 275kV cables from 4.3m to ca. 1m.

## 5.2 Alternative substation layouts

5.2.1 This section presents alternative substation design layouts that incorporate the key considerations outlined in Section 5.2, providing NGET with potential configurations for evaluation. They also take into account the pre-existing overhead lines as discussed in section 5.1.5.

5.2.2 This section also tries to illustrate phased approach to expansion of Saltholme 275kV GIS substation.

### Alternative Proposal: Phase-1



**Figure 5.5: Alternative Layout – Phase 1**

5.2.3 This subsection makes reference to Figure 5.5 above.

5.2.4 A: The Hartlepool – Saltholme 275 kV circuit will need to remain in service during the construction of Phase 1 to maintain supplies to the NPG 132 kV substation and security of supplies to Hartlepool power station. The sketch shows a 20m exclusion zone measured from the centre line of the towers in which construction works would not be permitted for safety reasons.

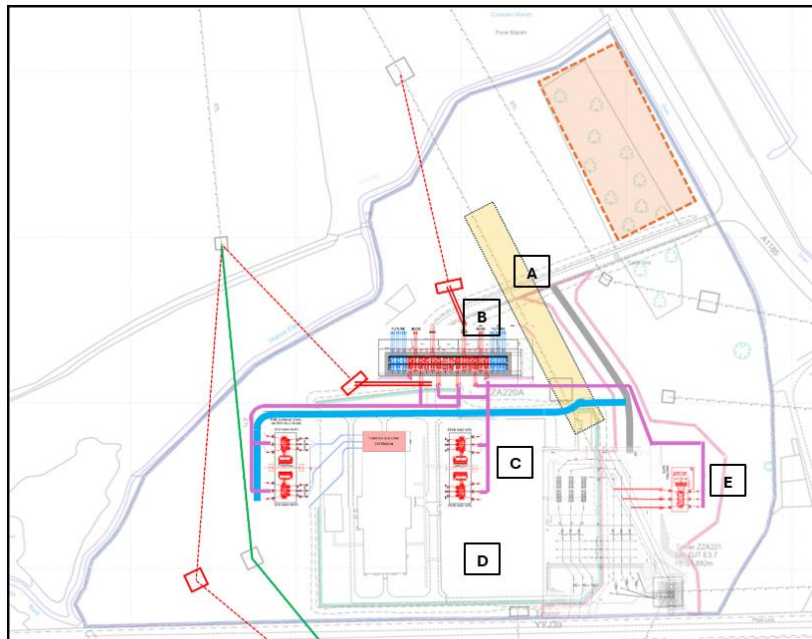
5.2.5 B: Only part of the new 275 kV GIS substation would be constructed in Phase 1. This would include sufficient switchgear bays to connect both the 275 kV OHL circuits



- 
- that will feed the substation and the first two of the new 275/132 kV transformers to feed NPG.
- 5.2.6 C: As the new GIS substation building will be constructed over the access road, a new access road is proposed from the road that leads to the 400 kV Smartwires compound.
- 5.2.7 D: As in the NGET proposal, it is proposed to relocate tower YYJ-N037 to allow clearance for construction of the new transformers to the West of the 132 kV substation. However, the deviation is not as great as in the NGET design, consequently it is possible that tower YYJ N038 (located South of the substation) can be retained, thus avoiding the need to divert the Lackenby – Norton 400 kV circuit on to cables at this point. This saves cost and avoids the requirement for a new cable sealing end compound in the Southwest corner of the site.
- 5.2.8 E: Two new 275/132 kV transformers are shown, located as shown in the NGET design. These could be located closer to the 132 kV substation by the use of space-saving design (e.g. using GIS to provide the transformer/132 kV cable transition), however it does not appear that this would be necessary here.
- 5.2.9 F: Shown is an indicative lay down area/Contractors compound to the North of the existing access road, avoiding the NPG 132 kV lines. It is recognised that this area is currently a copse with mature tree growth, however this could be replanted on completion of the construction works. Alternate areas may be able to be identified that are not in NGET ownership and do not require loss of woodland.

Alternative Proposal: Phase-2

- 5.2.10 On completion of the Phase 1 works the Hartlepool – Saltholme and Norton – Saltholme 275 kV circuits will have been transferred to the new GIS substation. Consequently, the existing 275 kV switchgear and 275/132 kV transformers will have been decommissioned, allowing the 275 kV substation compound to be cleared and redeveloped.
- 5.2.11 Figure 5.6 shows the addition of the Phase-2 works.



**Figure 5.6: Alternative Layout – Phase 2**

5.2.12 This subsection makes reference to Figure 5.6 above.

5.2.13 A: The Hartlepool – Saltholme 275 kV circuit will have been diverted into the new GIS substation as part of the Phase 1 works, thus only the circuit on the East side of the towers will remain live. Consequently the clearance zone has been moved to the East.

5.2.14 B: The GIS substation is extended towards the Hartlepool – Tod Point - Lackenby circuit to the full extent required by NGET. It is possible that the future bay (marked in blue) will not be required at this stage, limiting the additional construction works required.

5.2.15 C: Two additional 275/132 kV transformers are provided in the 275 kV compound.

5.2.16 E: The 400/275 kV transformer is located on NGET land to the east of the Hartlepool – Tod Point - Lackenby circuit. It is noted that this circuit already ‘oversails’ the 400 kV Smartwires compound, thus this arrangement introduces no additional hazards.

5.2.17 D: A large area of the 275 kV compound is left available for future development (e.g. replacement of the NPG substation or location to accommodate the 400/275kV inter-bus transformer should area E be problematic).

### 5.3 Conclusion

5.3.1 One of the key considerations highlighted by the Applicant in this report is the potential for NGET to repurpose the existing 275/132kV transformer yards, which will become obsolete following the completion of NGET’s expansion plan.

5.3.2 By strategically locating a portion of NGET’s new equipment within these decommissioned transformer yards, additional space can be made available to the west and north of the existing compound. This reallocation would facilitate the

- 
- routing of the Applicant's hydrogen (H<sub>2</sub>) pipeline through NGET's land while optimizing overall site utilization.
- 5.3.3 As elaborated in section 5.2 and 5.3 above, through an integrated and phased approach, it should be possible for the Applicant's H<sub>2</sub> pipeline and NGET's 275kV substation expansion to coexist within the designated plot.
- 5.3.4 In addition to the Applicants suggested alternative layout described in section 5.3, The Applicant has also identified further alternative layout arrangements that could be considered further by NGET. These include:
- Making greater use of the redundant transformer yard land within Saltholme; and
  - Relocation of the existing 400 kV Smartwires compound to elsewhere on the network to create additional space at Saltholme.
- 5.3.5 In the limited time available since NGET's decision to cease negotiations on the compromise solution, these have not elaborated upon within this report, but are demonstrative of the fact that there is not one single approach that could be taken to the expansion of Saltholme Substation.
- 5.3.6 This report, and the matters discussed in the Second Change Applicant Report, have demonstrated that there are a number of alternative designs and design considerations that could be applied to the design of the expansion of Saltholme Substation which would still allow for the revised design of the Proposed Development (without an AGI) to be brought forward. A compromise solution is therefore possible.
- 5.3.7 Whilst this may mean that NGET has to do more work to develop its design to help achieve that compromise solution, this does not constitute a serious detriment. As set out in the Second Change Application Report, NGET needs to demonstrate that the Proposed Development will mean that expansion of Saltholme substation is not possible such that NGET cannot carry out its undertaking to demonstrate serious detriment.
- 5.3.8 This report demonstrates that this is clearly not the case. There is no reason therefore that development consent, and compulsory acquisition powers, cannot be granted over the NGET plots in the vicinity of Saltholme Substation.



## APPENDIX 1: INTRODUCTORY LETTER TO NGET'S APPOINTED AGENTS REQUESTING ACCESS FOR A NON-INTRUSIVE SURVEY RELATING TO THE PROPOSED DEVELOPMENT AND REQUEST FOR A FACE TO FACE OR VIRTUAL MEETING

Our Ref: 22381.22004379  
Your Ref:

26<sup>th</sup> August 2022

By email: [REDACTED]@dalcourmaclaren.com

National Grid Electricity Transmission PLC  
c/o [REDACTED]  
Dalcour Maclaren  
1 Staplehurst Farm  
Weston on the Green  
Oxfordshire, OX25 3QU



Harelands Courtyard Offices  
Moor Road  
Melsonby  
North Yorkshire  
DL10 5NY

M [REDACTED]  
E [REDACTED]@dalcourmaclaren.com

Dear [REDACTED]

### H2Teesside and bp Exploration Operating Company Limited Project Introduction and Survey Access

You may be aware that bp Exploration Operating Company Limited ('bp') has announced its proposal to develop a clean hydrogen production facility in Teesside. This facility will be known as H2Teesside (the 'Project') and aims to produce up to 1GW of 'blue' hydrogen by 2030, which equates to 20% of the UK's hydrogen target supporting the Net Zero Commitment.

Dalcour Maclaren ('DM') have been instructed by bp to act as consultant land agents across the scheme and will be the main point of contact for all land matters on the project. We are writing to you because following a search of the Land Registry, we have identified National Grid Electricity Transmission PLC as having an interest in land within the Project's selected search area. At present we are at a very early stage of the project and are looking at very high level search areas. To inform and refine these search areas, the project wishes to undertake some non intrusive walkover surveys across some areas of land. These will aid our constraint mapping and are predominantly focused on seasonal ecological factors. The intention is that these non-intrusive surveys commence as soon as possible.

In advance of the programme for surveys being finalised I would welcome a meeting either face to face or virtually to discuss the surveys and any access licences or agreements that are needed. If you could come back to me proposing some dates either myself or one of the DM team would be happy to meet.

H2Teesside will be a Nationally Significant Infrastructure Project (NSIP) and as such will be applying for a Development Consent Order (DCO) under the Planning Act 2008. Prior to submitting this application, you will be contacted by Ardent Management Ltd who have been instructed by our client to complete the land referencing element of the scheme, we will however be working closely with Ardent to ensure data you provide us is shared so as to reduce the impact on you.

In the meantime if you have any queries relating to the project or the proposed surveys, please do not hesitate to contact [REDACTED] at Dalcour Maclaren.

Yours sincerely,

[REDACTED]

HEAD OFFICE  
1 Staplehurst Farm  
Weston on the Green  
Oxfordshire OX25 3QU

Dalcour Maclaren Ltd registered  
in England number: 04836300  
Regulated by the RICS  
[www.dalcourmaclaren.com](http://www.dalcourmaclaren.com)



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## APPENDIX 2: LETTER, LAND PLANS AND LIQ ISSUED TO NGET, 10 FEBRUARY 2023



Our Reference: LIQ/H2/136

National Grid Electricity Transmission PLC  
C/O: The Company Secretary  
1-3 Strand  
London  
WC2N 5EH

Date: 10/02/2023

Dear Sir / Madam,

**Request for Information regarding Land Interests related to the application for a Development Consent Order for the H2Teesside Project.**

You may be aware that bp has announced its plans to develop a low carbon hydrogen production facility in Teesside. This facility will be known as H2 Teesside (the 'Project') and aims to produce up to 1.2GW of 'blue' hydrogen by 2030, which equates to over 10% of the UK government's hydrogen target of 10GW by 2030.

bp's plans for Teesside can support the region's economic development and regeneration. The project could help preserve existing jobs as local industry seeks to decarbonise, create high-quality new jobs in both its construction and operation phases, and bring new industry attracted to the region by access to low carbon energy.

bp is also committed to working with local councils, authorities, and educators to create a legacy in the region, partnering with local educational institutions to help equip the community with skills they need to pursue careers in low carbon industry.

Further details on the Project are available at: [www.h2teesside.co.uk](http://www.h2teesside.co.uk)

The Project has been classified by the UK Government Department for Business, Energy & Industrial Strategy ('BEIS') as a project that must be consented through a Development Consent Order ('DCO') pursuant to the Planning Act 2008. The Planning Act 2008 process involves collation of environmental data to support the Environmental Impact Assessment process, whilst also providing an opportunity for public consultation through what will be known as the Stage 2 (statutory) Consultation. The Stage 2 Consultation is proposed to commence in April 2023 and prior to its carrying out, all parties who have an interest in land potentially impacted by the Project are required to be identified.

Following consultation, the application for a DCO is expected to be submitted to the Planning Inspectorate in Q4 2023.

In preparation for the Stage 2 Consultation, H2 Teesside Limited (the bp entity who will be the Applicant for the proposed DCO) is required to identify all parties who hold an interest in or rights over land which may potentially be affected by the development of the Project. This process is known as land referencing and enables H2 Teesside Limited to ensure that those parties holding interests in relevant land or property can be consulted appropriately, over the coming months, on the proposals for the Project.

**Ardent Management Limited** ('Ardent') has been instructed by bp to act for H2 Teesside Limited to undertake this land referencing exercise.

The enclosed plan highlights land that may be affected by the development of the Project in which it is understood that you hold an interest ('the Land'); and which therefore forms part of this land referencing exercise.

This letter and the enclosed Land Interest Questionnaire ('LIQ') form and plans are part of this identification process as we need to confirm your interest as well as identify details of any other freeholders, leaseholders, tenants, occupiers and parties with other interests (such as rights of access, easements etc.) in the Land.

It is important to stress that all the development proposals at this stage are currently in draft form and that as part of the Stage 2 (statutory) consultation, the Applicant will seek feedback and comments on the draft proposals, in order to help shape the future design work. The Project is still evolving, including through consultation, as such the purpose of this land referencing process is simply to ensure all relevant people are consulted on these evolving proposals.

It would be helpful if you were able to return the completed attached form within **14 days** of receipt of this letter to enable timely dialogue to be entered into, should it be requested or needed. You can also provide information via email if this is easier.

If you have any queries about this or the enclosed documents

please contact:

**Louisa Getley**  
[REDACTED]@ardent-management.com  
Mobile: [REDACTED]

**Tabatha Millerchip**  
[REDACTED]@ardent-management.com  
Mobile: [REDACTED]

Yours faithfully,

[REDACTED]

**Jack Withington**  
Senior Consultant

**Ardent Management Limited**  
on behalf of H2 Teesside Limited

*Any details you provide will be held securely by Ardent in line  
with the Data Protection Act 2018 – please see the  
accompanying GDPR Statement.*



## H2 Teesside Project

### Land Interest Questionnaire ('LIQ')

*This is a Land Interest Questionnaire ('LIQ') served on behalf of Teesside Power Limited ('the Applicant') and relates to the Land and Property as shown on the attached plan(s)*

*The information requested is required in connection with the proposed application for a Development Consent Order ('DCO') for the construction, maintenance and operation of the H2 Teesside Project ('the Project')*

*The Applicant requires details of all parties holding a legal interest in the Land as part of its statutory obligations for the format and content of the application for a DCO and to ensure that everybody who has an interest in the Land is given the opportunity to comment during the pre-application consultation and when the proposed application for a DCO is submitted.*

**PLEASE READ THE ATTACHED NOTES BEFORE COMPLETING THIS QUESTIONNAIRE.**

*Arden Management Limited will process your personal information in this questionnaire in accordance with the Data Protection Act 2018. More information regarding your personal information can be found in the GDPR form accompanying this letter.*

*We kindly request that you complete the attached form and return it using the pre-paid envelope provided or via email. It would be helpful if you were able to provide the information within 14 days.*

*This information is solely for the purpose of identifying property interests and is not intended, by any party, to confer any right/interest in the nature of a tenancy or exclusive possession or occupation of the Land and gives no proprietary interest in the Land to the Applicant.*

*Additional information can be written on the reverse of the last sheet if necessary.*

1. Details of the person(s) or organisation having an interest in the Land or Property shown on the attached plan(s). For example, this could be that you own or lease the property, occupy the property or have a right over the land.

Please complete your details:

- If the interest is in your name, please provide:

Title & Full Name:	
Home Address:	
Telephone:	
E-mail Address:	
Address for service of notices if different to address above:	

- If the interest is in a Registered Company or incorporated body, please provide:

Full Name of Company:	
Registered/Principal Office Address and Company Number:	
Telephone:	
E-mail Address:	
Address for service of notices if different to address above:	

- If you are an executor, trustee, partner etc, please state the capacity in which your interest is held and any collective name:

E.g. Executor / Trustee / Partner etc	
---------------------------------------	--

LIQ/H2/136

- Please give full names and addresses of all other individuals in a similar position:

Full Name:	
Address:	
Telephone:	
E-mail Address:	
Address for service of notices if different to address above:	

*If necessary please continue on a separate sheet*

**2. Nature of your Tenure concerning the Land or Property shown on the attached plan(s):** *(If joint please list other parties in question 16)*

See attached notes 2(a) to (d)	Single Owner or	Joint Owner <i>(please list other parties in question 16)</i>
(a) Freehold		
(b) Leasehold		
(c) Tenancy		
(d) Mortgage or Charge		
(e) Rentcharge		
(f) Right of Entry		
(g) Restrictive Covenant		
(h) Licence		
(i) Franchise (e.g. right to hold a market or fair or take tolls)		
(j) Profit à Prendre (e.g. right to remove something: grazing, grass, fish, peat or wood)		

(d) Other (Please state): .....

.....

- Trading Name *(if applicable)*:.....

**3. If the interest in Question 2 is freehold, leasehold or a tenancy, does it include the whole of the property (building and/or land)?**

LIQ/H2/136

Yes / No

If only part, please describe (or mark on the plan)?

.....  
.....  
.....

4. If you are not the freeholder, please provide the name and address of the freeholder:

Full Name:	
Address:	
Telephone:	
E-mail Address:	

*If necessary please continue on a separate sheet*

5. If you are a leaseholder:

(i) What is the term of the lease? (if known) .....

(ii) What date did the lease commence? (if known) .....

6. If you are a tenant, what is the period of your tenancy?

Weekly / Fortnightly / Quarterly / Annual / Other

If other, please provide details

.....

LIQ/H2/136



7. Does the person or organisation named in Question 1 occupy the premises?

Yes / No

Please list the names and addresses of **ALL OTHER** occupiers together with the nature of their tenure including all persons aged 18 years and over (*or who will be 18 years within the next 12 months*).

Full Name:	
Address:	
Telephone:	
Relationship to person / organisation identified in Question 1 above:	
Nature of Tenure (See Question 2 for examples):	
E-mail Address:	

*If necessary please continue on a separate sheet*

8. Does the person or organisation named in Question 1 enjoy any rights, easements or other legal interest over any adjacent or other property?

Yes / No / Don't Know

If yes please give details below:

Address of property:	
Nature of interest:	

*If necessary please continue on a separate sheet*

LIQ/H2/136

9. Does anybody in any adjacent or other property enjoy any rights, easements or other legal interest over the Land and Property?

Yes / No / Don't Know

Full Name:	
Address:	
Telephone:	
E-mail Address:	
Nature of interest:	

*If necessary please continue on a separate sheet*

10. Is the Land or Property subject to any restrictive covenant(s)?

Yes / No / Don't Know

If yes please give details below:

Details of Restrictive Covenants:	
Land/person having the benefit of the covenant(s):	
Address:	

*If necessary please continue on a separate sheet*

LIQ/H2/136

**11. Attached plan(s):**

- If the attached plan shows the extent of your interest correctly, please sign one copy of the plan and return that signed copy with your completed questionnaire.
- If the attached plan shows the extent of your interest incorrectly, please amend it (to show where it is wrong) and sign one copy of the mark-up plan) and return it with your completed questionnaire.
- Please also show, or inform us of, any other land (including land owned by someone else) over which you consider you have rights of use, enjoy easements or other private rights.
- Please also show the extent of your land over which you consider others have rights of use, enjoy easements or have any other rights over your land.

**12. Are there any tenancies or licences in respect of hoardings, poster sites, showcases, vending machines, kiosks, etc on the Land or Property?**

Yes / No

If yes please give name(s), address(es), type(s) and the nature of the interest:

Full Name:	
Address:	
Telephone:	
E-mail Address:	
Type:	
Nature of interest:	

*If necessary please continue on a separate sheet*

**13. Is the Land or Property subject to any mortgage or equitable interest?**

Yes / No

LIQ/H2/136

If yes please provide name(s), address(es) and the nature of the interest:

Full Name:	
Address:	
Mortgage Reference:	
E-mail Address:	
Nature of interest:	

*If necessary please continue on a separate sheet*

**14. Are there any managing or letting agents connected with the Land or Property?**

Yes / No

If yes please provide name(s), address(es) and the nature of the interest:

Full Name:	
Address:	
Telephone:	
Type:	
E-mail Address:	

*If necessary please continue on a separate sheet*

**15. Please describe the current use and features of the Land or Property (e.g., residential – house, flat, yard, garden; commercial – offices, premises, industrial works, car park; agricultural land, woodland, grassland, allotment; etc) and any postal address:**

Current use and features of the property:	
---	--

LIQ/H2/136

Full Postal Address:	
----------------------	--

16. Are there any other individuals or organisations with an interest in the Land or Property, not disclosed above?

Yes / No

If yes please provide name(s), address(es) and the nature of the interest:

Full Name:	
Address:	
Telephone:	
E-mail Address:	
Nature of interest: (See Question 2 for examples)	

*If necessary please continue on a separate sheet*

17. Are there any other individuals or organisations currently negotiating or in the process of purchasing your interest in the Land or Property, or any other interest in the Land or Property?

Yes / No

If yes please provide name(s), address(es) and details of the current situation:

Full Name:	
Address:	
Telephone:	

LIQ/H2/136

E-mail Address:	
Details of the current situation:	

*If necessary please continue on a separate sheet*

**18. Please supply details of the person to whom any additional enquiries may be directed if necessary:**

Contact Name: ..... Tel No(s): .....

..... E-mail Address: .....

**The information on the questionnaire is both complete and accurate to the best of my knowledge (subject to corrections identified on the plan):**

Name (please print): .....

Position: .....

Signed: ..... Date: .....

Tel No.: ..... E-mail Address: .....

LIQ/H2/136

Please complete the Land Interest Questionnaire ('LIQ') with as much detail as possible and return your completed Questionnaire to **Ardent** (along with the marked-up copy of the plan(s)) using the pre-paid envelope provided.

**Please do this within 14 days** of the date on which you received the Questionnaire.

Alternatively, you can return the completed LIQ by e-mail to [REDACTED]@ardent-management.com

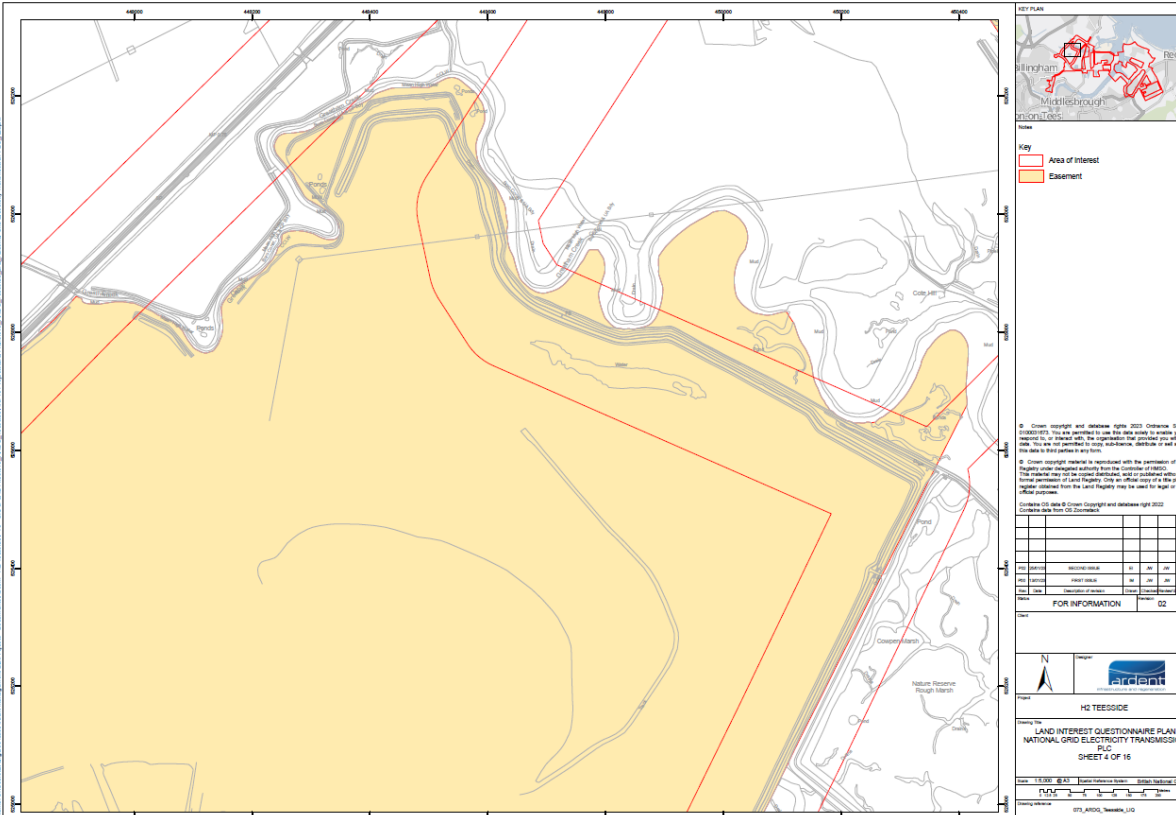
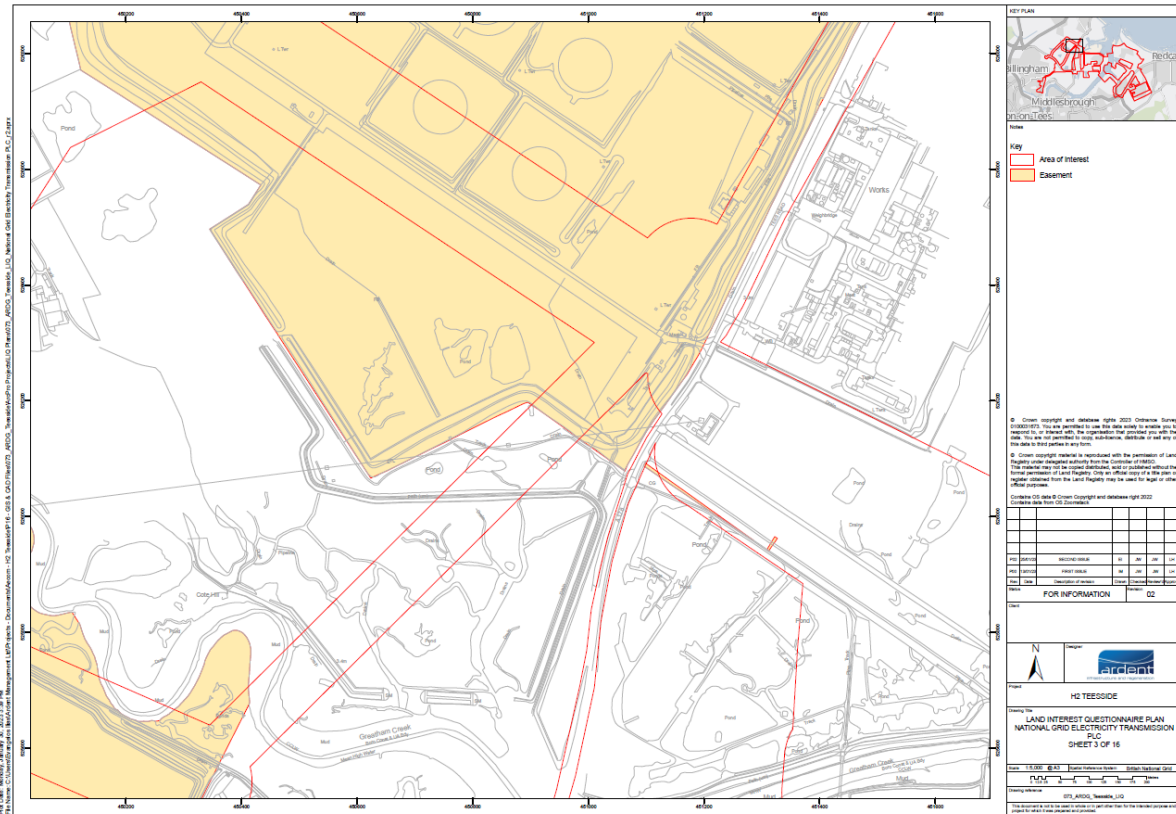
Or request an interactive copy of the LIQ, which can be completed on a computer, saved and returned via email.

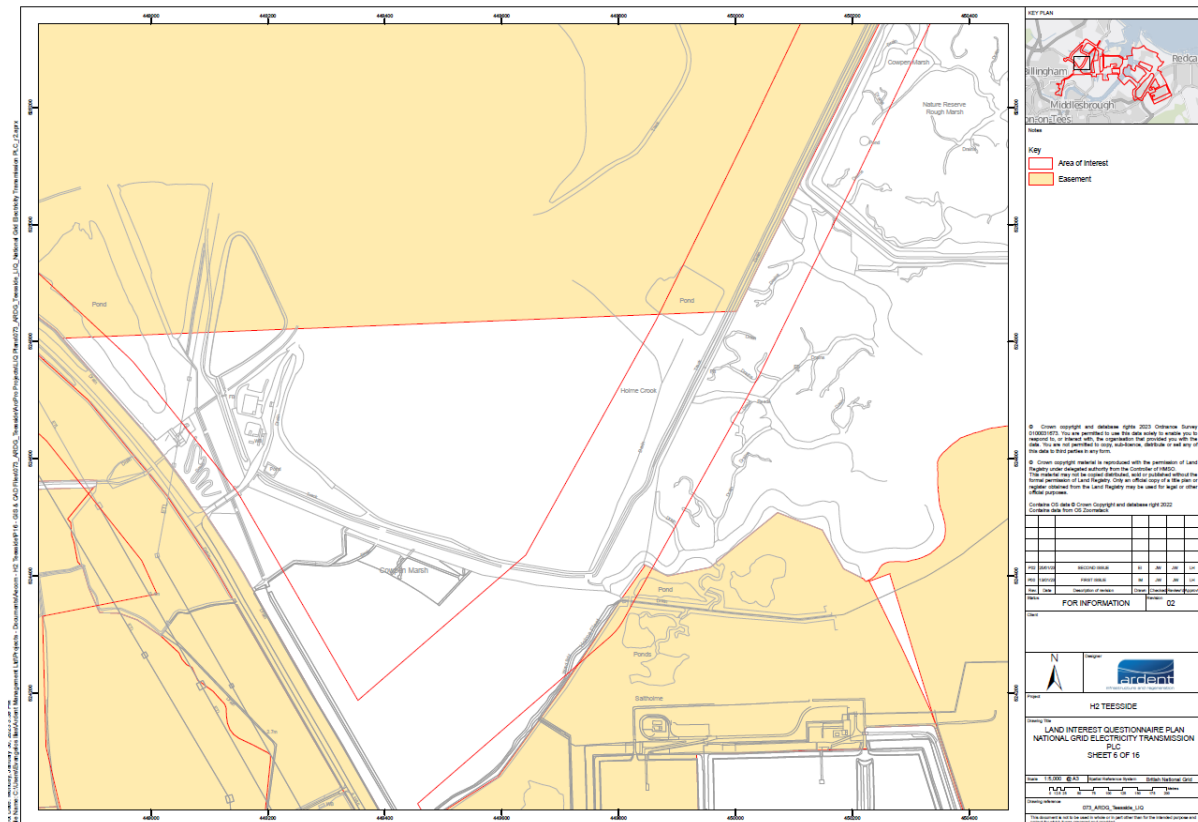
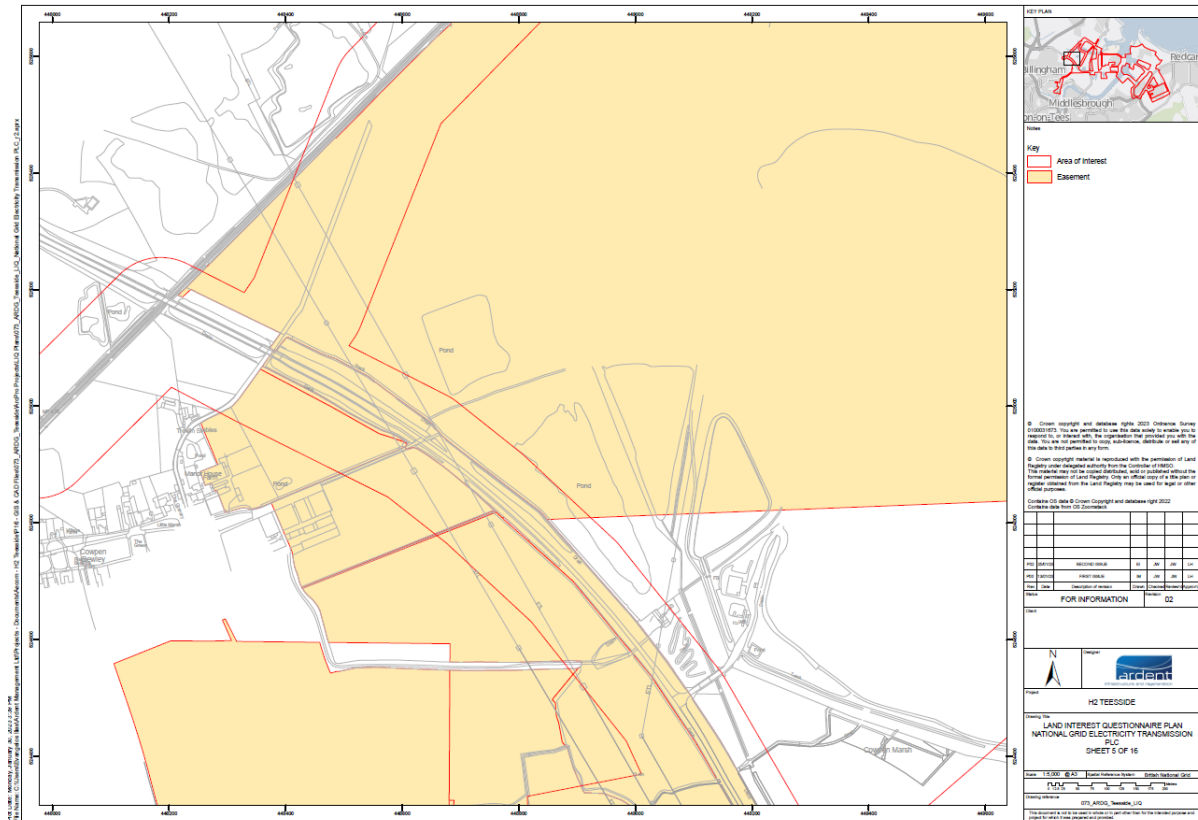
LIQ/H2/136

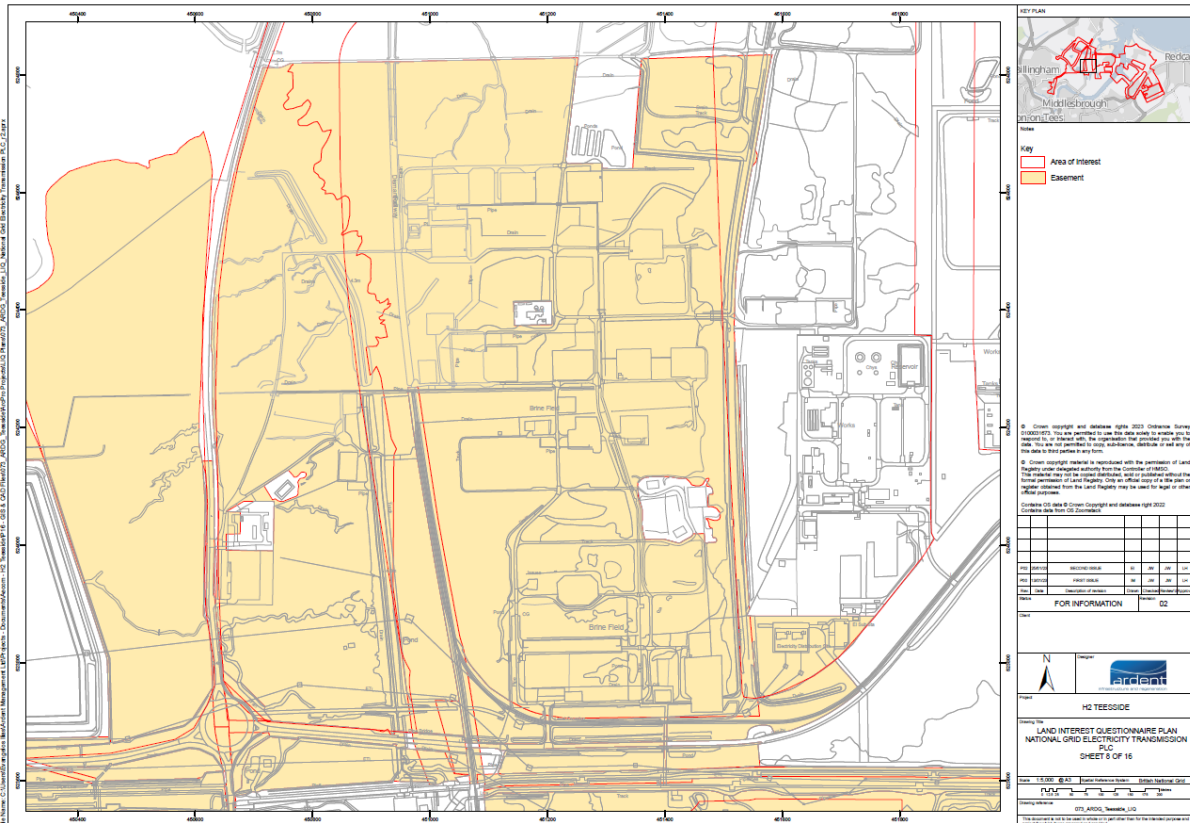
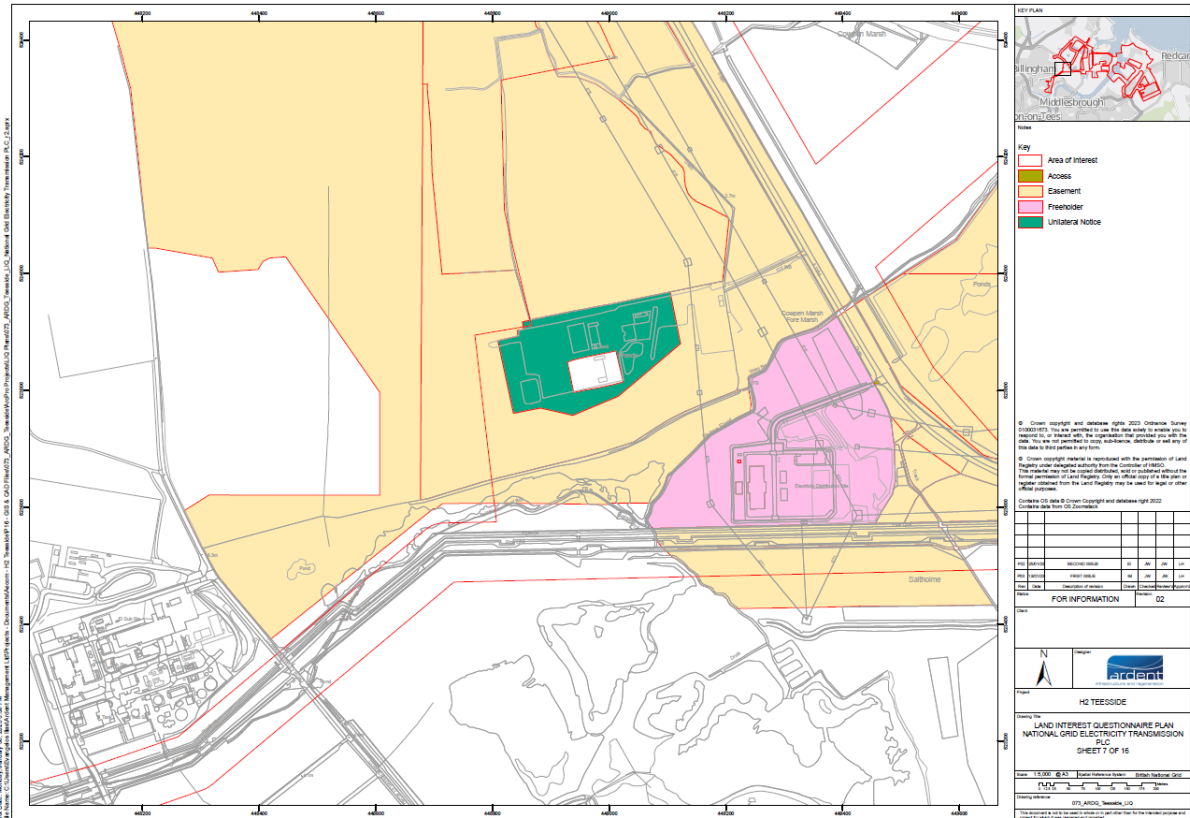
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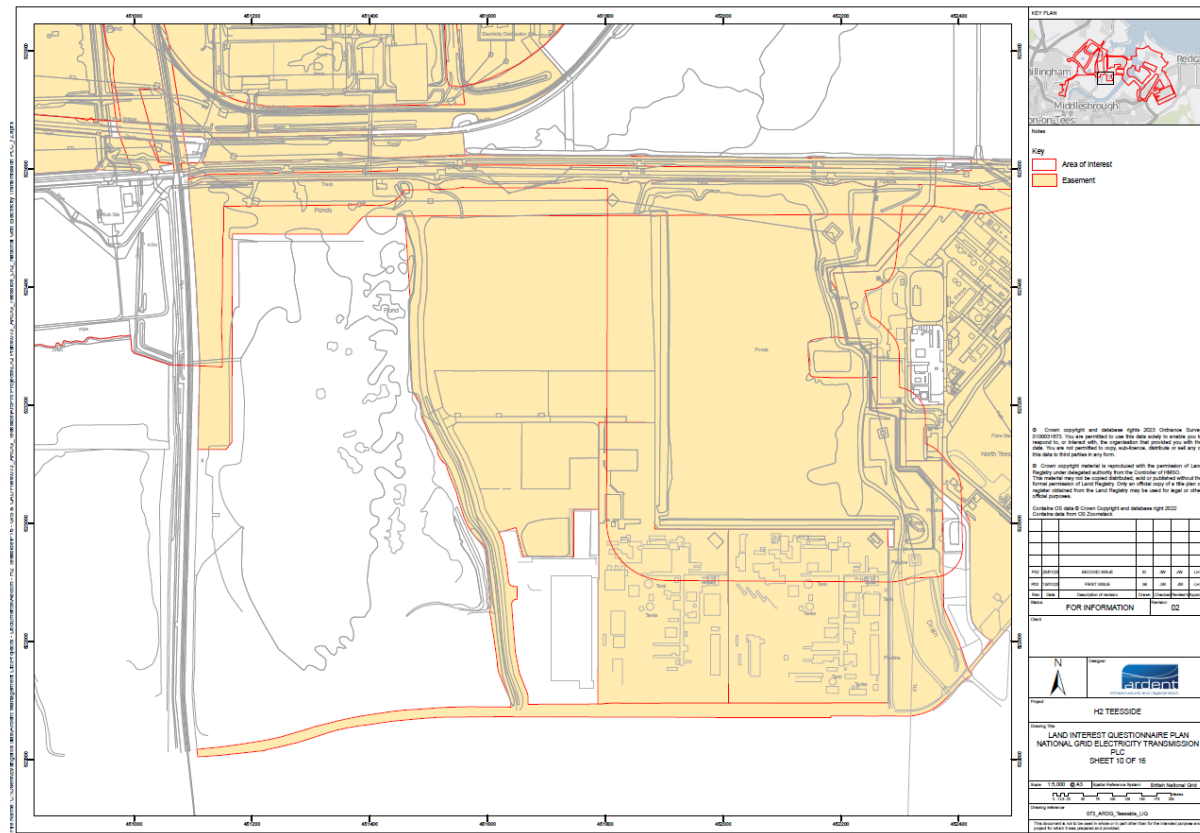
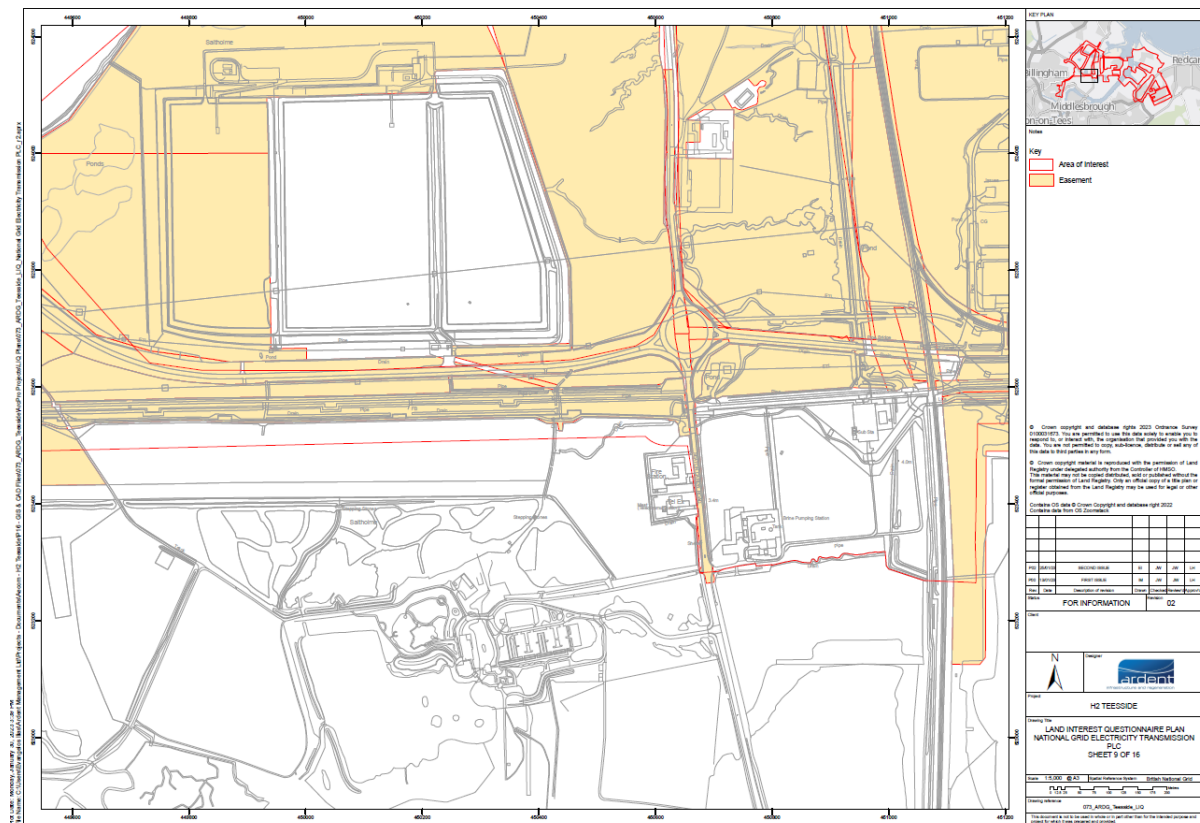


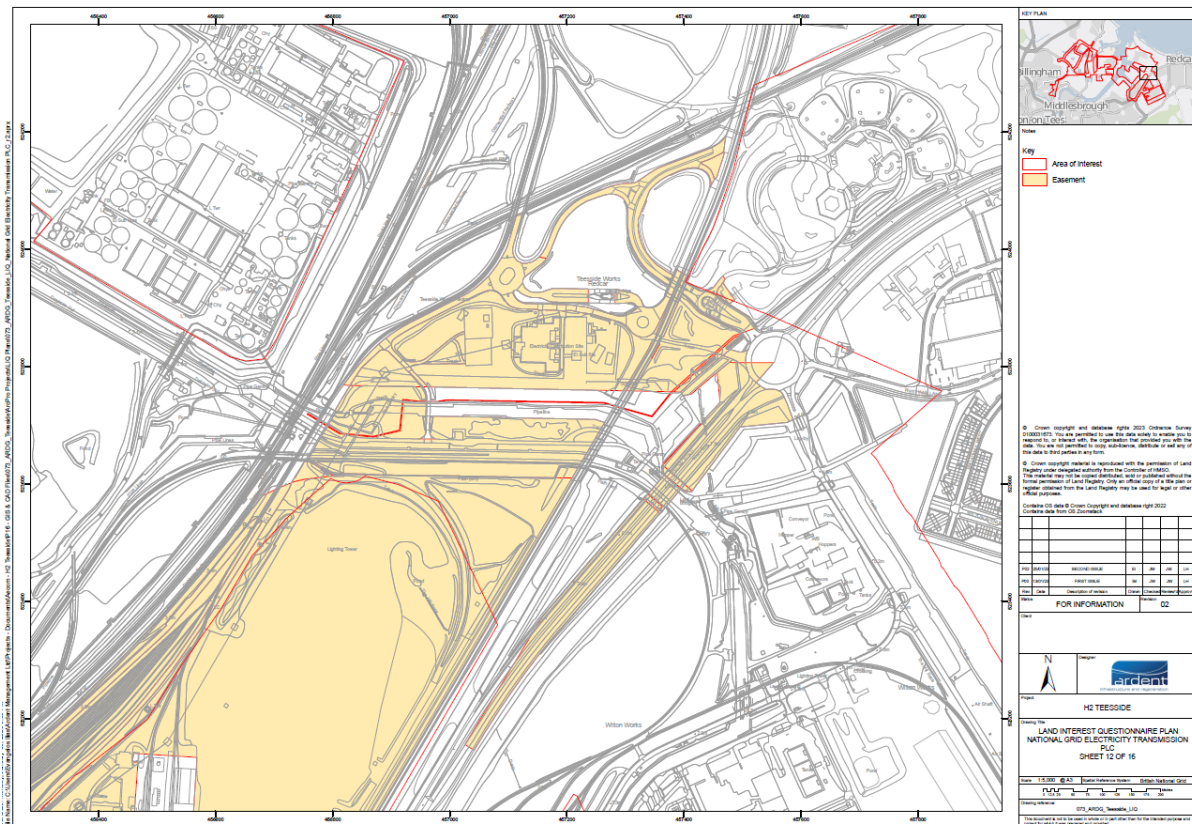
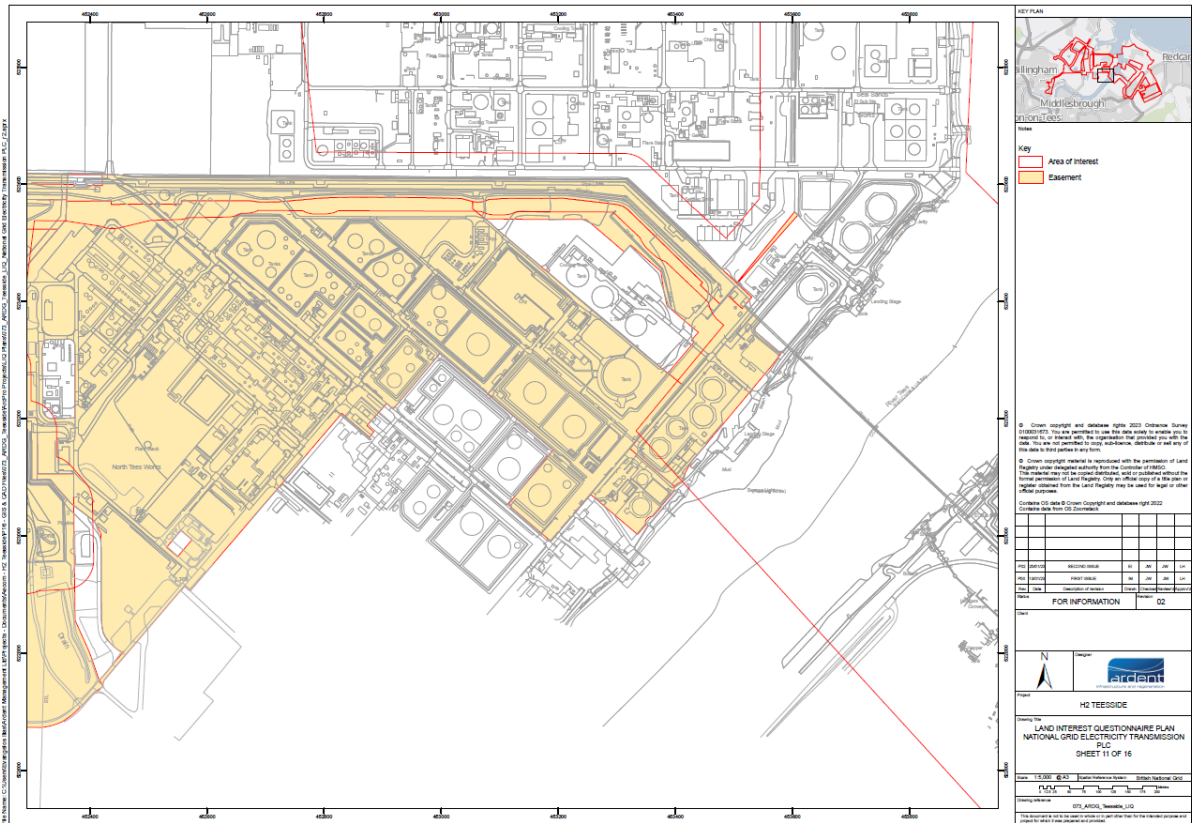








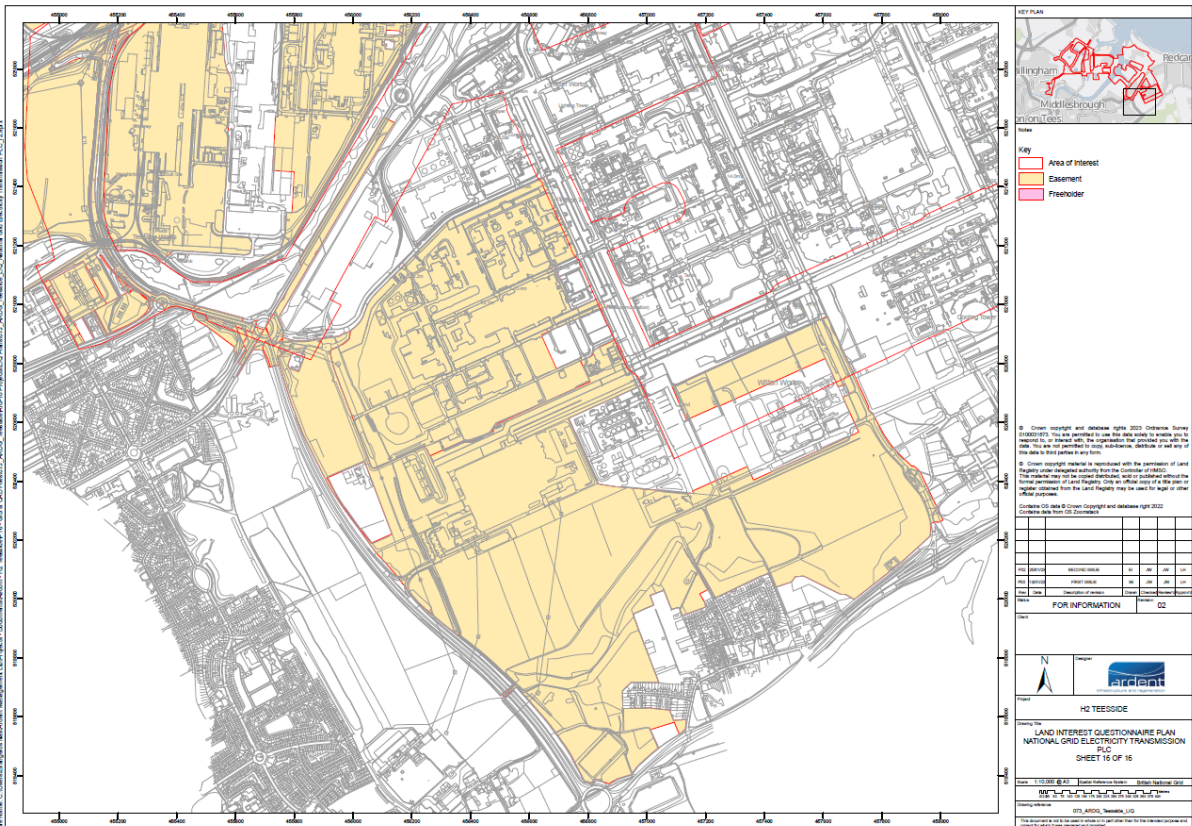
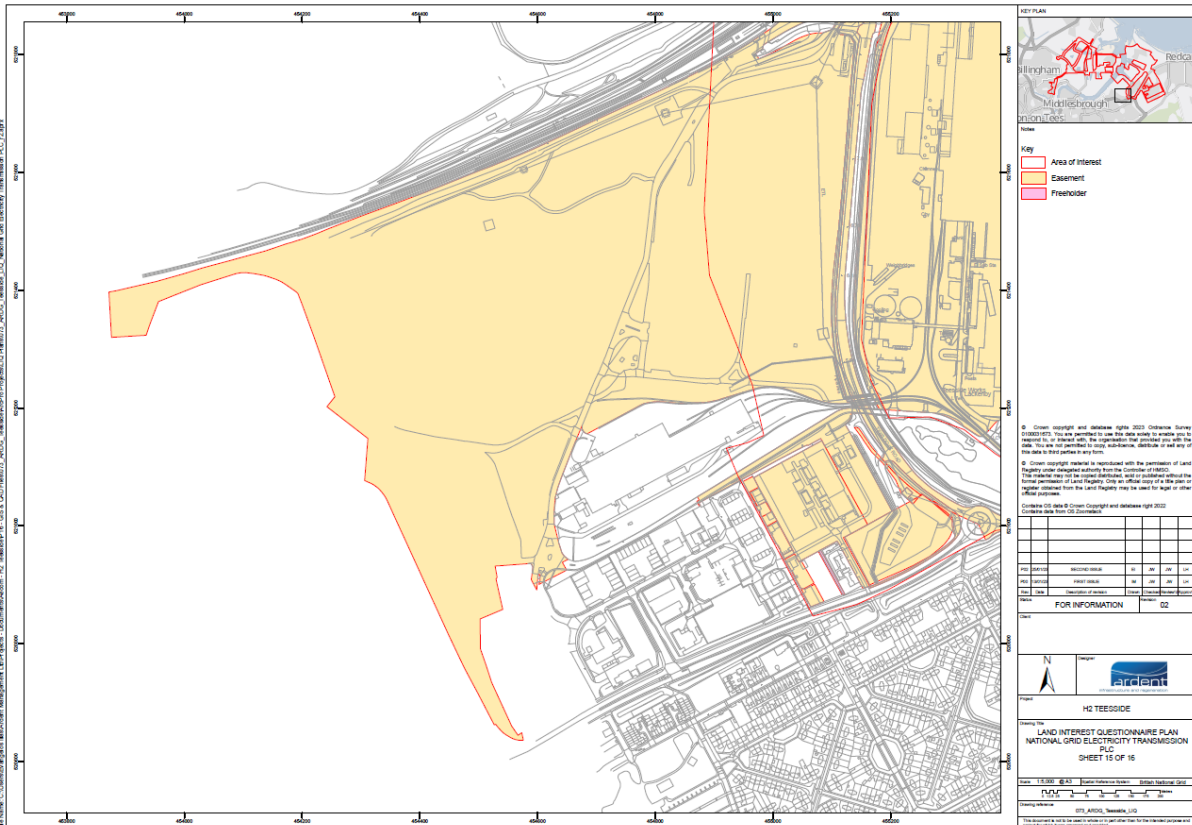












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## APPENDIX 3: LIQ CHASER LETTER ISSUED TO NGET, 21 MARCH 2023



Our Reference: LIQ/H2/136  
National Grid Electricity Transmission PLC  
C/O: The Company Secretary  
1-3 Strand  
London  
WC2N 5EH

Date: 21/03/2023

Dear Sir/Madam,

**The 'H2 Teesside Project' by H2 Teesside Limited  
Request for Information regarding Land Interests related to the  
application for a Development Consent Order for the H2 Teesside  
Project.**

In preparation for the application for a Development Consent Order (DCO) which is expected to be submitted to the Planning Inspectorate during Q4 2023, H2 Teesside Limited ('the Applicant') are required to identify all parties who hold an interest in or rights over land which may potentially be affected by the development on the H2 Teesside Project ('the Project'). This process is known as land referencing and enables the Applicant to ensure that those parties holding interests in relevant land or property can be consulted appropriately on the proposals for the Project.

As part of this process, Arden has been instructed to act for the Applicant to undertake this land referencing exercise. We previously wrote to you on the 10/02/2023 requesting the completion of a Land Interest Questionnaire ('LIQ'), which came with accompanying land ownership plans. We would be grateful if you could please complete LIQ form with as much detail as possible and return to Arden (along with any marked-up plans you may have available) using the pre-paid envelope provided as soon as possible. If you require any assistance with completing the form, please do not hesitate to contact **Louisa Getley** or **Tabatha Millerchip** using the details provided below. You can also provide information via email if this is easier.

Reference: LIQ/H2/136

Please contact us if you require the LIQ, associated land ownership plans and pre-paid envelope to be re-issued.

**Louisa Getley**

[REDACTED] [@ardent-management.com](mailto:[REDACTED]@ardent-management.com)

Mobile: [REDACTED]

**Tabatha Millerchip**

[REDACTED] [@ardent-management.com](mailto:[REDACTED]@ardent-management.com)

Mobile: [REDACTED]

Yours faithfully,

[REDACTED]

**Jack Withington**

Senior Consultant

**Ardent Management Limited**  
on behalf of H2 Teesside Limited

*Any details you provide will be held securely by Ardent in line with the Data Protection Act 2018 – please see the accompanying GDPR Statement provided with the original LIQ.*

## APPENDIX 4: LIQ CHASER EMAIL ISSUED AND RESPONSE FROM NGET, 01 JUNE 2023

[REDACTED]

---

**From:** [REDACTED] <[REDACTED]@nationalgrid.com>  
**Sent:** 01 June 2023 19:45  
**To:** NGET Land Enquiry; [REDACTED]  
**Subject:** RE: [EXTERNAL] H2 Teesside - Land Interest Questionnaire

*External e-mail - Please think before clicking any links or opening attachments.*

[REDACTED]

I will collate a response on behalf of NGET and issue this to you as soon as possible.

Kind regards,

[REDACTED]

Development Liaison Officer & EA to Prem Gabbi, Director of UK Land and Property  
UK Land and Property  
**nationalgrid**

[REDACTED]  
[\[REDACTED\]@nationalgrid.com](mailto:[REDACTED]@nationalgrid.com)

National Grid House, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA  
[nationalgrid.com](http://nationalgrid.com) | [Twitter](#) | [LinkedIn](#)

Please consider the environment before printing this email.

Advance notice of holiday: 12<sup>th</sup> – 16<sup>th</sup> June and 7<sup>th</sup> – 10<sup>th</sup> July

---

**From:** NGET Land Enquiry <NGETLandEnquiry@nationalgrid.com>  
**Sent:** 01 June 2023 16:35  
**To:** [REDACTED]@nationalgrid.com>  
**Cc:** [REDACTED]@ardent-management.com  
**Subject:** FW: [EXTERNAL] H2 Teesside - Land Interest Questionnaire  
**Importance:** High

Hi [REDACTED]

I have received the below email from [REDACTED] whom I have CC'd for reference.

Are you able to shed some light on this please? Are DM able to complete this, or should this sit with you?

Many Thanks,

[REDACTED]  
Land Development Coordinator  
Strategy & Commercial  
UK Land and Property  
**nationalgrid**



████████████████████ Senior Land Referencer  
Ardent | No.1 Aire Street, Leeds LS1 4PR  
Mobile: ██████████  
E: ██████████@ardent-management.com | W [www.ardent-management.com](http://www.ardent-management.com)



*Follow Ardent on LinkedIn*

This e-mail, and any attachments are strictly confidential and intended for the addressee(s) only. The content may also contain legal, professional or other privileged information. If you are not the intended recipient, please notify the sender immediately and then delete the e-mail and any attachments. You should not disclose, copy or take any action in reliance on this transmission.

You may report the matter by contacting us via our [UK Contacts Page](#) or our [US Contacts Page](#) (accessed by clicking on the appropriate link)

Please ensure you have adequate virus protection before you open or detach any documents from this transmission. National Grid plc and its affiliates do not accept any liability for viruses. An e-mail reply to this address may be subject to monitoring for operational reasons or lawful business practices.

For the registered information on the UK operating companies within the National Grid group please use the attached link: <https://www.nationalgrid.com/group/about-us/corporate-registrations>



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## APPENDIX 5: LIQ CHASER LETTER ISSUED TO NGET, 22 JUNE 2023



Our Reference: LIQ/H2/136

National Grid Electricity Transmission PLC  
C/O: The Company Secretary  
1-3 Strand  
London  
WC2N 5EH

Date: 22<sup>nd</sup> June 2023

Dear Sir/Madam,

**The 'H2 Teesside Project' by H2 Teesside Limited  
Request for Information regarding Land Interests related to the  
application for a Development Consent Order for the H2 Teesside  
Project.**

In preparation for the application for a Development Consent Order (DCO) which is expected to be submitted to the Planning Inspectorate during Q4 2023, H2 Teesside Limited ('the Applicant') are required to identify all parties who hold an interest in or rights over land which may potentially be affected by the development on the H2 Teesside Project ('the Project'). This process is known as land referencing and enables the Applicant to ensure that those parties holding interests in relevant land or property can be consulted appropriately on the proposals for the Project.

As part of this process, Arden has been instructed to act for the Applicant to undertake this land referencing exercise. We previously wrote to you on the 10/02/2023 requesting the completion of a Land Interest Questionnaire ('LIQ'), which came with accompanying land ownership plans. We would be grateful if you could please complete LIQ form with as much detail as possible and return to Arden (along with any marked-up plans you may have available) using the pre-paid envelope provided as soon as possible. If you require any assistance with completing the form, please do not hesitate to contact **Louisa Getley** or **Tabatha Millerchip** using the details provided below. You can also provide information via email if this is easier.

Please contact us if you require the LIQ, associated land ownership plans and pre-paid envelope to be re-issued.

Reference



**Louisa Getley**

[REDACTED] [@ardent-management.com](mailto:[REDACTED]@ardent-management.com)

Mobile: [REDACTED]

**Tabatha Millerchip**

[REDACTED] [@ardent-management.com](mailto:[REDACTED]@ardent-management.com)

Mobile: [REDACTED]

Yours faithfully,

[REDACTED]

**Jack Withington**

Senior Consultant

**Ardent Management Limited**  
on behalf of H2 Teesside Limited

*Any details you provide will be held securely by Ardent in line  
with the Data Protection Act 2018 – please see the  
accompanying GDPR Statement.*

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**APPENDIX 6: FIRST CONSULTATION NOTIFICATION LETTER ISSUED TO NGET, 14  
SEPTEMBER 2023**



Date: 14 September 2023

The Chief Executive  
National Grid Electricity Transmission Plc  
1-3 Strand  
London  
WC2N 5EH

Dear Sir/Madam,

**THE H2TESSIDE PROJECT – LAND EITHER SIDE OF THE RIVER TEES WITHIN THE  
BOROUGH OF REDCAR AND CLEVELAND AND STOCKTON-ON-TEES ON TESSIDE  
AND THE BOROUGH OF HARTLEPOOL IN COUNTY DURHAM**

**CONSULTATION IN ACCORDANCE WITH SECTION 42 'DUTY TO CONSULT' OF THE  
PLANNING ACT 2008 & REGULATION 13 'PRE-APPLICATION PUBLICITY UNDER  
SECTION 48 (DUTY TO PUBLICISE)' OF THE INFRASTRUCTURE PLANNING  
(ENVIRONMENTAL IMPACT ASSESSMENT) REGULATIONS 2017**

H2 Teesside Limited (the 'Applicant') is proposing to apply for development consent pursuant to Section 37 'Applications for orders granting development consent' of the Planning Act 2008 (the 'PA 2008') from the Secretary of State ('SoS') for the Department of Energy Security and Net Zero ('DESNZ') to authorise the construction, operation and maintenance of the H2Teesside hydrogen project (the 'Project') on land either side of the River Tees within the boroughs of Redcar and Cleveland and Stockton-on-Tees on Teesside and Hartlepool within County Durham.

**Background to the Project**

H2Teesside will be one of the UK's largest hydrogen production facilities with a capacity of up to 1.2 gigawatts ('GW') thermal, representing more than 10% of the Government's hydrogen production target of 10 GW by 2030. This equates to the production of approximately 160,000 tonnes of low carbon hydrogen per annum, with up to two million tonnes of CO<sub>2</sub> being captured and stored each year.

The Project will use natural gas to produce hydrogen (known as 'blue' hydrogen) with the carbon dioxide (CO<sub>2</sub>) created during the hydrogen production process being captured and compressed for onward transportation and storage, under agreement with the Northern Endurance Partnership (the 'NEP'). NEP will store the CO<sub>2</sub> securely below ground within the Endurance storage site and other nearby CO<sub>2</sub> stores that NEP holds CO<sub>2</sub> storage licences for. These are located approximately 145 kilometres ('km') offshore from Teesside under the North Sea.

The onshore elements of the NEP infrastructure on Teesside are also known as the Net Zero Teesside ('NZE') Project and have been the subject of an application for development consent, in respect of which the SoS for DESNZ is expected to make a decision in the near future.

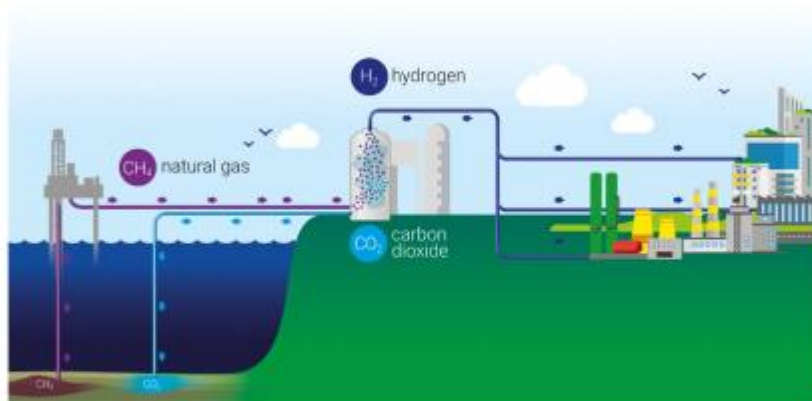
H2Teesside and NEP form part of the East Coast Cluster ('ECC'). The ECC has been selected as one of the first two carbon capture, usage and storage ('CCUS') clusters to be taken forward by the UK Government. The ECC has the potential to remove almost 50% of the UK's total industrial clusters carbon dioxide emissions, protect thousands of jobs and establish the region as a globally competitive climate friendly hub for industry and innovation. The ECC will include a diverse mix of low-carbon projects, including industrial carbon capture, low-carbon hydrogen production, negative emissions power, and power with carbon capture.

The low carbon hydrogen produced by the Project will be supplied via a new hydrogen pipeline network to existing businesses on Teesside. By replacing the use of natural gas the Project will help existing heavy industry on Teesside reduce its carbon dioxide emissions, consistent with the Government's objective to decarbonise the UK economy and achieve its legally binding target of net zero greenhouse gas emission by 2050.

It is anticipated that the proposed application for development consent will be submitted to the Planning Inspectorate ('PINS'), acting on behalf of the SoS for DESNZ in Q1 2024.

bp is advancing a separate 'green' hydrogen project, known as HyGreen on Teesside. HyGreen will have an initial production capacity of circa 80 megawatts ('MW') electrical with the potential to expand up to 500 MW of hydrogen production. HyGreen will split water in an electrolyser to produce hydrogen and oxygen using renewable electricity. Some sections of the hydrogen distribution pipelines for HyGreen will be located in the same pipeline corridors as those for H2Teesside and the NEP onshore infrastructure. It is currently envisaged that all the elements of HyGreen will be consented separately under the Town and Country Planning Act 1990 and it has been the subject of a separate pre-application consultation exercise, which finished in early July 2023. It is envisaged that the application for HyGreen will be submitted in late 2023.

The infographic below provides an overview of the 'blue' hydrogen processes.



Further information relating to the Project is provided in this letter and the Consultation Documents that are being made available (see further details below).

Any comments and representations you may have on the Project should be submitted to the Applicant no later than 26 October 2023. Details of how to make comments/representations are provided later in this letter.

**Section 42 'Duty to consult' & EIA Regulation 13 'Pre-application publicity under Section 48 (duty to publicise)'**

Section 42 of the PA 2008 'Duty to consult' requires prospective applicants for development consent (granted in the form of a 'Development Consent Order' or 'DCO') to consult on their proposed application with those persons specified in the PA 2008 and in regulations made pursuant to the PA 2008. These persons ('prescribed persons') include local authorities, prescribed consultation bodies and affected/potentially affected landowners and other interests in land. The consultation must be carried out prior to submitting the application for development consent to PINS.

The Applicant has identified a number of persons and organisations, which it is required to consult for the purposes of Section 42 of the PA 2008. It has been determined that you or your organisation is, or may be, a 'prescribed person' for the purposes of Section 42. The Applicant therefore wishes to seek your views on its proposals for H2Teesside.

Section 48 of the PA 2008 'Duty to publicise' also requires applicants for development consent to publicise their proposed application by publishing a notice (a 'Section 48 Notice') once in a national newspaper, once in the London Gazette, and in the case of a project like H2Teesside that involves tidal waters in the UK marine area, in the Lloyds List and an appropriate fishing journal, and for at least two successive weeks in a local newspaper circulating in the vicinity of the land to which the project relates. The Section 48 Notice for the Project is being published as follows:

- Telegraph – 14 September 2023
- London Gazette – 14 September 2023
- Lloyds List – 15 September 2023
- Fishing News – 14 September 2023
- Northern Echo – 15 and 22 September 2023
- Teesside Gazette – 14 and 21 September 2023
- Darlington and Stockton Times – 14 and 21 September 2023

Regulation 13 of 'The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017' (the 'EIA Regulations') requires applicants, at the same time as publishing the Section 48 Notice, to send a copy of that notice to the 'consultation bodies' and to any person notified to the applicant by the SoS under EIA Regulation 11(1)(c).

A copy of the Section 48 Notice that is being published is therefore appended to this letter in accordance with EIA Regulation 13.

**The Applicant**

H2 Teesside Limited is owned by bp Plc ('bp'). bp will be the lead developer and operator of the Project.

bp is already an established global hydrogen leader and believes hydrogen could play a key role in its energy portfolio. It is a vital industrial decarbonisation solution and together with carbon capture and storage, which can play a critical role in securely and safely storing the vast majority of CO<sub>2</sub> emissions produced by heavy industry, will be critical to delivering net zero.

**The Project Site**

The site for the Project (the 'Project Site') comprises land either side of the River Tees within boroughs of Redcar and Cleveland and Stockton-on-Tees on Teesside and the borough of

Hartlepool in County Durham. The Project Site extends to approximately 1,350 hectares in total. National Grid References (NGRs) for the Project Site are provided below:

- Mid-point – 454538 524086
- North – 451524 526938
- East – 458780 521588
- South – 456998 520748
- West – 446938 521612

Plans are available within the 'Consultation Documents' (see further below) showing the current Project Site boundary.

#### **Project Description**

The proposed application will, amongst other matters, seek development consent for the construction, operation and maintenance of:

- a hydrogen production plant of up to 1.2 GW thermal to be developed in two phases;
- a natural gas supply connection for the supply of natural gas to the hydrogen production plant;
- an air separation unit or oxygen and nitrogen supply pipelines to supply these industrial gases for the hydrogen production process;
- an electricity grid connection to provide power to the Project;
- water supply and treatment and wastewater infrastructure;
- hydrogen storage;
- CO<sub>2</sub> capture and compression facilities and a connection to the NEP infrastructure for the transport and storage of the CO<sub>2</sub>;
- hydrogen distribution pipelines to supply the low carbon hydrogen to industrial off-takers across Teesside;
- other associated development, including hydrogen storage; external lighting; fencing and boundary treatment; security measures; surface water and foul water drainage systems; water, electricity, gas and other utilities connections; hard and soft landscaping; biodiversity mitigation and enhancement measures; temporary contractor facilities and construction laydown areas; vehicle access roads, crossing, parking and pedestrian and cycle facilities.

The hydrogen production plant and its associated development (e.g. natural gas supply connection, air separation unit/oxygen and nitrogen supply pipelines, electricity grid connection, water infrastructure, hydrogen storage and CO<sub>2</sub> capture and compression facilities and connection) and ancillary development will be located within the administrative area of the borough of Redcar and Cleveland. The hydrogen distribution pipelines corridors will extend either side of the River Tees to several potential industrial off-takers and encompass land within the administrative areas of the boroughs of Redcar and Cleveland, Stockton-on-Tees and Hartlepool.

All of the above elements will be included in the proposed application for development consent.

#### **Environmental Impact Assessment**

The Applicant has notified the SoS in writing under Regulation 8(1)(b) of The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (the 'EIA Regulations') that it intends to provide an Environmental Statement ('ES') in respect of the Project. The Project is therefore 'EIA development' for the purposes of the EIA Regulations and an ES will form part of the proposed application for development consent.



Information so far compiled about the Project's environmental impacts is contained in a Preliminary Environmental Information Report ('PEIR') and summarised in a Non-Technical Summary ('NTS').

#### **Consultation Documents**

The Consultation Documents relating to the Project, including plans and maps showing the nature and location of the Project can be downloaded via the below link to a secure fileshare site:

<https://dwd.ctit.co/url/ucndwihs47v95qrx>

The Consultation Documents comprise:

- A plan showing the extent of the Project Site edged in red and the development areas of the Site (Figures 4-1 to 4-8 of the PEIR);
- the PEIR;
- the NTS of the PEIR;
- a Consultation Brochure;
- a Consultation Leaflet, which has been sent to people living within the vicinity of the Project Site; and
- the Section 48 Notice that is being published.

The Consultation Documents are available to download and view free of charge from the Project Website: [www.h2teesside.co.uk](http://www.h2teesside.co.uk) until 26 October 2023.

The Consultation Documents will also be available to view free of charge at the consultation events being held during September and October 2023. Details of when and where the consultation events are taking place can be found on the Project Website.

If you are unable to access the fileshare site or the Project Website, please email: [info@h2teesside.net](mailto:info@h2teesside.net) or telephone: 0800 080 3028 and you will be offered a paper copy of the consultation documents free of charge (with the exception of the PEIR which will be charged at a maximum of £250) or a USB device containing the Consultation Documents free of charge. Any details you provide to us via email or telephone will be subject to our Privacy Notice: <http://h2teesside.co.uk/privacy>

#### **Responding to the Consultation**

If you wish to make comments or representations in respect of the Project, these should be sent to the Applicant. Please include your name and an address where any correspondence relating to the Project can be sent. Comments and representations may be submitted in the following ways:

**Email:** [info@h2teesside.net](mailto:info@h2teesside.net)

**Post:** Freepost H2TEESSIDE

**Telephone:** Freephone 0800 080 3028

**Project Website:** [www.h2teesside.co.uk](http://www.h2teesside.co.uk)

Any comments received will be analysed by the Applicant and any appointed agent of the Applicant, and copies may be made available in due course to the SoS, PINS and other relevant statutory authorities so that your comments can be noted. For certain parties, those who own an interest in land or are affected by the Project, the Applicant is under a statutory

duty to publish names and addresses as part of its development consent application. In respect of other people, we will request that your personal details are not placed on public record and these will be held securely by the Applicant in accordance with the Data Protection Act 1998 and the General Data Protection Regulation and used solely in connection with the consultation process and subsequent development consent application and, except as noted above, will not be passed to third parties. Please refer to our Privacy Notice: <http://h2teesside.co.uk/privacy>

Please note that all comments and representations must be received by the Applicant no later than **11.59pm on 26 October 2023**.

Yours faithfully

**Matthew Williamson – on behalf of H2Teesside Limited**

Enc. Section 48 Notice

## APPENDIX 7: NGET FIRST CONSULTATION RESPONSE, 20 OCTOBER 2023

Section 42 Statutory Consultation - NGET Response External Inbox x 🔍 🔗


[+ Summarise this email](#)

**Vicky Cashman** - [redacted]@ardent-management.com-  
to me, Tiffany ▾ 📧 20 Oct 2023, 12:44 ★ ↶ ⋮


Dear Sir/Madam

Please find attached a response on behalf of NGET to the recent consultation for the H2 Teesside DCO.

Kind Regards  
Vicky



**Vicky Cashman**  
[Land and Planning Consultant](#)  
Mob: [redacted]  
Tel: [redacted]  
Email: [redacted]@ardent-management.com  
Web: [www.ardentmanagement.com](http://www.ardentmanagement.com)  
[in](#) [t](#) [v](#)





National Grid House  
Warwick Technology Park  
Gallows Hill, Warwick  
CV34 6DA

Vicky Cashman  
Consultant DCO Liaison Officer  
UK Land and Property  
[REDACTED]@ardent-management.com  
Tel: [REDACTED]

www.nationalgrid.com

SUBMITTED ELECTRONICALLY:  
[info@h2teesside.net](mailto:info@h2teesside.net)

20 October 2023

Dear Sir/Madam

#### THE H2TEESSIDE PROJECT

**CONSULTATION IN ACCORDANCE WITH SECTION 42 'DUTY TO CONSULT' OF THE PLANNING ACT 2008 & REGULATION 13 'PRE-APPLICATION PUBLICITY UNDER SECTION 48 (DUTY TO PUBLICISE)' OF THE INFRASTRUCTURE PLANNING (ENVIRONMENTAL IMPACT ASSESSMENT) REGULATIONS 2017**

I refer to your letter dated 14<sup>th</sup> September 2023 in relation to the above proposed application. This is a response on behalf of National Grid Electricity Transmission PLC (NGET). Having reviewed the consultation documents, NGET would like to make the following comments regarding infrastructure within or in close proximity to the current red line boundary.

NGET has high voltage electricity overhead transmission lines, underground cables and a high voltage substation within the scoping area. The overhead lines and substation form an essential part of the electricity transmission network in England and Wales.

#### Substation

- Grangetown 66kV Substation
- Tod Point 275kV Substation
  - Buried fibre cables from Tod Point substation
- Associated overhead and underground apparatus including cables

#### Overhead Lines

ZZA 400kV OHL	Hartlepool – West Boldon Hartlepool – Hartmoor Hartlepool – Saltholme Hartlepool – Tod Point Lackenby – Norton Hartlepool – Tod Point
YYJ 400kV OHL	Lackenby – Norton 1
YYQ 275kV OHL	Norton – Saltholme Hartlepool – Tod Point

National Grid is a trading name for:  
National Grid Electricity Transmission plc  
Registered Office: 1-3 Strand, London WC2N 5EH  
Registered in England and Wales, No 2366977



National Grid House  
Warwick Technology Park  
Gallows Hill, Warwick  
CV34 6DA

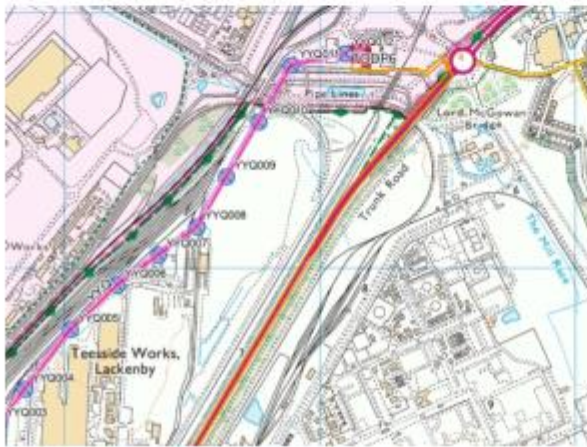
XA 400kV  
Lackenby – Tod Point  
Lackenby – Norton 1  
Hartlepool – Tod Point

Associated underground apparatus including cables

Cable Apparatus

- Grangetown - Lackenby 275kV underground cable

Please find below a plan showing the location of NGET's apparatus in the consultation area:



**Specific Comments – Electricity Infrastructure:**

- NGET's Overhead Line/s is protected by a Deed of Easement/Wayleave Agreement which provides full right of access to retain, maintain, repair and inspect our asset

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Gallows Hill, Warwick  
CV34 6DA

- Statutory electrical safety clearances must be maintained at all times. Any proposed buildings must not be closer than 5.3m to the lowest conductor. NGET recommends that no permanent structures are built directly beneath overhead lines. These distances are set out in EN 43 – 8 Technical Specification for “overhead line clearances Issue 3 (2004)”. Excavation exclusion zones should also be maintained and considered in discussion with NGET.
- If any changes in ground levels are proposed either beneath or in close proximity to our existing overhead lines then this would serve to reduce the safety clearances for such overhead lines. Safe clearances for existing overhead lines must be maintained in all circumstances.
- The relevant guidance in relation to working safely near to existing overhead lines is contained within the Health and Safety Executive’s ([www.hse.gov.uk](http://www.hse.gov.uk)) Guidance Note GS 6 “Avoidance of Danger from Overhead Electric Lines” and all relevant site staff should make sure that they are both aware of and understand this guidance.
- Plant, machinery, equipment, buildings or scaffolding should not encroach within 5.3 metres of any of our high voltage conductors when those conductors are under their worse conditions of maximum “sag” and “swing” and overhead line profile (maximum “sag” and “swing”) drawings should be obtained using the contact details above.
- If a landscaping scheme is proposed as part of the proposal, we request that only slow and low growing species of trees and shrubs are planted beneath and adjacent to the existing overhead line to reduce the risk of growth to a height which compromises statutory safety clearances.
- Drilling or excavation works should not be undertaken if they have the potential to disturb or adversely affect the foundations or “pillars of support” of any existing tower. These foundations always extend beyond the base area of the existing tower and foundation (“pillar of support”) drawings can be obtained using the contact details above.
- NGET high voltage underground cables are protected by a Deed of Grant; Easement; Wayleave Agreement or the provisions of the New Roads and Street Works Act. These provisions provide NGET full right of access to retain, maintain, repair and inspect our assets. Hence we require that no permanent / temporary structures are to be built over our cables or within the easement strip. Any such proposals should be discussed and agreed with NGET prior to any works taking place.
- Ground levels above our cables must not be altered in any way. Any alterations to the depth of our cables will subsequently alter the rating of the circuit and can compromise the reliability, efficiency and safety of our electricity network and requires consultation with National Grid prior to any such changes in both level and construction being implemented.

To download a copy of the HSE Guidance HS(G)47, please use the following link:  
<http://www.hse.gov.uk/pubns/books/hsg47.htm>

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National Grid Electricity Transmission plc  
Registered Office: 1-3 Strand, London WC2N 5EH  
Registered in England and Wales, No 2366977





National Grid House  
Warwick Technology Park  
Gallows Hill, Warwick  
CV34 6DA

#### Further Advice

We would request that the potential impact of the proposed scheme on NGET's existing assets as set out above and including any proposed diversions is considered in any subsequent reports, including in the Environmental Statement, and as part of any subsequent application.

Where any diversion of apparatus may be required to facilitate a scheme, NGET is unable to give any certainty with the regard to diversions until such time as adequate conceptual design studies have been undertaken by NGET. Further information relating to this can be obtained by contacting the email address below.

Where the promoter intends to acquire land, extinguish rights, or interfere with any of NGET apparatus, protective provisions will be required in a form acceptable to it to be included within the DCO.

NGET requests to be consulted at the earliest stages to ensure that the most appropriate protective provisions are included within the DCO application to safeguard the integrity of our apparatus and to remove the requirement for objection. All consultations should be sent to the following email address: [box.landandacquisitions@nationalgrid.com](mailto:box.landandacquisitions@nationalgrid.com)

I hope the above information is useful. If you require any further information, please do not hesitate to contact me.

The information in this letter is provided notwithstanding any discussions taking place in relation to connections with electricity customer services.

Yours faithfully



Vicky Cashman  
Consultant DCO Liaison Officer

National Grid is a trading name for:  
National Grid Electricity Transmission plc  
Registered Office: 1-3 Strand, London WC2N 5EH  
Registered in England and Wales, No 2366977

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## APPENDIX 8: SECOND CONSULTATION NOTIFICATION LETTER ISSUED TO NGET, 13 DECEMBER 2023



Date: 13 December 2023

The Chief Executive  
National Grid Electricity Transmission Plc  
1-3 Strand  
London  
WC2N 5EH

Dear Sir/Madam,

**THE H2TEESSIDE PROJECT – LAND EITHER SIDE OF THE RIVER TEES WITHIN THE  
BOROUGHES OF REDCAR AND CLEVELAND AND STOCKTON-ON-TEES ON TEESSIDE  
AND THE BOROUGH OF HARTLEPOOL IN COUNTY DURHAM**

**FURTHER CONSULTATION IN ACCORDANCE WITH SECTION 42 'DUTY TO CONSULT'  
OF THE PLANNING ACT 2008 & REGULATION 13 'PRE-APPLICATION PUBLICITY  
UNDER SECTION 48 (DUTY TO PUBLICISE)' OF THE INFRASTRUCTURE PLANNING  
(ENVIRONMENTAL IMPACT ASSESSMENT) REGULATIONS 2017**

H2 Teesside Limited (the 'Applicant') is proposing to apply for development consent pursuant to Section 37 'Applications for orders granting development consent' of the Planning Act 2008 (the 'PA 2008') from the Secretary of State ('SoS') for the Department of Energy Security and Net Zero ('DESNZ') to authorise the construction, operation and maintenance of the H2Teesside hydrogen project (the 'Project') on land either side of the River Tees within the boroughs of Redcar and Cleveland and Stockton-on-Tees on Teesside and Hartlepool within County Durham.

The Applicant consulted on the Project between 14<sup>th</sup> September and 26<sup>th</sup> October 2023 ('the first consultation') and is now carrying out further consultation ('the second consultation') on the Project in respect of a number of changes that have resulted to the Project Site boundary following further design development and technical assessments and responses to the first consultation.

### **Background to the Project**

H2Teesside will be one of the UK's largest hydrogen production facilities with a capacity of up to 1.2 gigawatts ('GW') thermal by 2030, representing more than 10% of the Government's hydrogen production target of 10 GW by 2030. This equates to the production of approximately 180,000 tonnes of low carbon hydrogen per annum, with approximately two million tonnes of CO<sub>2</sub> being captured and stored each year.

The Project will use natural gas to produce hydrogen (known as 'blue' hydrogen) with the carbon dioxide (CO<sub>2</sub>) created during the hydrogen production process being captured and compressed for onward transportation and storage, under agreement with the Northern Endurance Partnership (the 'NEP'). NEP will store the CO<sub>2</sub> securely below ground within the Endurance store and other nearby CO<sub>2</sub> stores that NEP holds CO<sub>2</sub> storage licences for.

These are located approximately 145 kilometres ('km') offshore from Teesside under the North Sea.

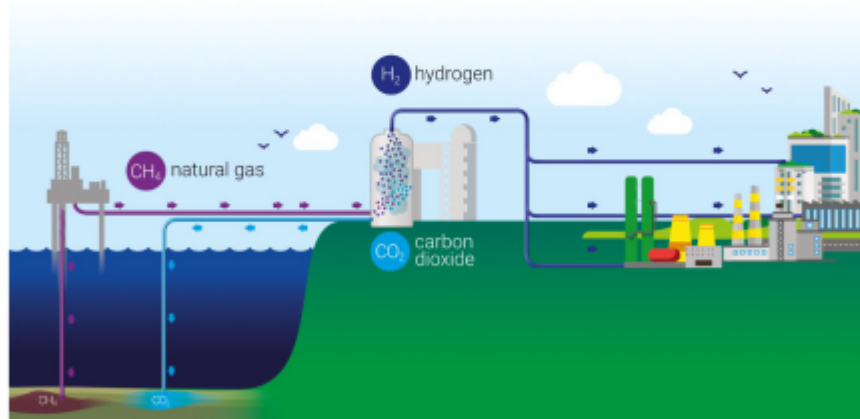
The onshore elements of the NEP infrastructure on Teesside are also known as the Net Zero Teesside ('NZT') Project and have been the subject of an application for development consent, in respect of which the SoS for DESNZ is expected to make a decision in the near future.

H2Teesside and NEP form part of the East Coast Cluster ('ECC'). The ECC has been selected as one of the first two carbon capture, usage and storage ('CCUS') clusters to be taken forward by the UK Government. The ECC has the potential to remove almost 50% of the UK's total industrial clusters carbon dioxide emissions, protect thousands of jobs and establish the region as a globally competitive climate friendly hub for industry and innovation. The ECC will include a diverse mix of low-carbon projects, including industrial carbon capture, low-carbon hydrogen production, negative emissions power, and power with carbon capture.

The low carbon hydrogen produced by the Project will be supplied via a new hydrogen pipeline network to existing businesses, helping heavy industry on Teesside reduce its carbon dioxide emissions and supporting the UK Government's commitment to reach net zero by 2050.

It is anticipated that the proposed application for development consent will be submitted to the Planning Inspectorate ('PINS'), acting on behalf of the SoS for DESNZ in Q1 2024.

The infographic below provides an overview of the 'blue' hydrogen processes.



Further information relating to the Project is provided in this letter and the Consultation Documents that are being made available (see further details below).

Any comments and representations you may have on the Project should be submitted to the Applicant no later than **23 January 2024**. Details of how to make comments/representations are provided later in this letter.

**Section 42 'Duty to consult' & EIA Regulation 13 'Pre-application publicity under Section 48 (duty to publicise)'**

Section 42 of the PA 2008 'Duty to consult' requires prospective applicants for development consent (granted in the form of a 'Development Consent Order' or 'DCO') to consult on their proposed application with those persons specified in the PA 2008 and in regulations made pursuant to the PA 2008. These persons ('prescribed persons') include local authorities, prescribed consultation bodies and affected/potentially affected landowners and persons with other interests in the relevant land. The consultation must be carried out prior to submitting the application for development consent to PINS.

The Applicant has identified a number of persons and organisations, which it is required to consult for the purposes of Section 42 of the PA 2008. It has been determined that you or your organisation is, or may be, a 'prescribed person' for the purposes of Section 42. The Applicant therefore wishes to seek your views on its latest proposals for H2Teesside.

Section 48 of the PA 2008 'Duty to publicise' also requires applicants for development consent to publicise their proposed application by publishing a notice (a 'Section 48 Notice') once in a national newspaper, once in the London Gazette, and in the case of a project like H2Teesside that involves tidal waters in the UK marine area, in the Lloyds List and an appropriate fishing journal, and for at least two successive weeks in a local newspaper circulating in the vicinity of the land to which the project relates. The Section 48 Notice for the Project is being published as follows:

- Telegraph – 14 December 2023
- London Gazette – 14 December 2023
- Lloyds List – 14 December 2023
- Fishing News – 14 December 2023
- Northern Echo – 14 and 21 December 2023
- Teesside Gazette – 14 and 21 December 2023
- Darlington and Stockton Times – 15 and 22 December 2023

Regulation 13 of 'The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017' (the 'EIA Regulations') requires applicants, at the same time as publishing the Section 48 Notice, to send a copy of that notice to the 'consultation bodies' and to any person notified to the applicant by the SoS under EIA Regulation 11(1)(c).

A copy of the Section 48 Notice that is being published is appended to this letter in accordance with EIA Regulation 13.

**The Applicant**

H2 Teesside Limited is indirectly owned by bp Plc ('bp'). bp or an affiliate thereof will be the lead developer and operator of the Project.

bp is an active global hydrogen participant and believes hydrogen could play a key role in its energy portfolio. It is a vital industrial decarbonisation solution and together with carbon capture and storage, which can play a critical role in securely and safely storing the vast majority of CO<sub>2</sub> emissions produced by heavy industry, will be critical to delivering net zero.

**The Project Site**

The site for the Project (the 'Project Site') comprises land either side of the River Tees within boroughs of Redcar and Cleveland and Stockton-on-Tees on Teesside and the borough of Hartlepool in County Durham. The current extent of the Project Site, taking account of the changes made following further design development and technical assessments and



responses to the first consultation, is approximately 508 hectares in total. National Grid References (NGRs) for the Project Site are provided below:

- Mid-point – 454719 524286
- North – 451309 526476
- East – 458760 521587
- South – 457001 520748
- West – 446938 521613

Plans are available within the 'Consultation Documents' (see further below) showing the current Project Site boundary.

#### **Project Description**

The proposed application will, amongst other matters, seek development consent for the construction, operation and maintenance of:

- a hydrogen production plant of up to 1.2 GW thermal to be developed in two phases;
- a natural gas supply connection for the supply of natural gas to the hydrogen production plant;
- an air separation unit and or oxygen and nitrogen supply pipelines to supply these industrial gases for the hydrogen production process;
- an electricity grid connection to provide power to the Project;
- water supply and treatment and wastewater infrastructure;
- CO<sub>2</sub> capture and compression facilities and a connection to the NEP infrastructure for the transport and storage of the CO<sub>2</sub>;
- hydrogen distribution pipelines to supply the low carbon hydrogen to industrial off-takers across Teesside;
- other associated development, including hydrogen storage; external lighting; fencing and boundary treatment; security measures; surface water and foul water drainage systems; water, electricity, gas and other utilities connections; hard and soft landscaping; biodiversity mitigation and enhancement measures; temporary contractor facilities and construction laydown areas; vehicle access roads, crossing, parking and pedestrian and cycle facilities.

The hydrogen production plant and its associated development (e.g. natural gas supply connection, air separation unit/oxygen and nitrogen supply pipelines, electricity grid connection, water infrastructure, hydrogen storage and CO<sub>2</sub> capture and compression facilities and connection) and ancillary development will be located within the administrative area of the borough of Redcar and Cleveland. The hydrogen distribution pipelines corridors will extend either side of the River Tees to several potential industrial off-takers and encompass land within the administrative areas of the boroughs of Redcar and Cleveland, Stockton-on-Tees and Hartlepool.

All of the above elements will be included in the proposed application for development consent.

#### **Changes to the Project Site Boundary**

A number of changes have resulted to the proposed Order Limits for the Project following further design development and technical assessments and responses to the first consultation.

The further design and technical work has allowed for some of the flexibility and optionality that was included at the time of the first consultation to be removed. This has resulted in a significant overall reduction in the proposed Order Limits from 1,350 hectares to 508 hectares.

A small number of additions have been made to the proposed Order Limits to accommodate works required for the Project.

The changes made to the proposed Order Limits are shown and described within the Consultation Documents listed below.

### **Environmental Impact Assessment**

The Applicant has notified the SoS in writing under Regulation 8(1)(b) of The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (the 'EIA Regulations') that it intends to provide an Environmental Statement ('ES') in respect of the Project. An ES will form part of the proposed application for development consent.

Information so far compiled about the Project's environmental impacts is contained in a Preliminary Environmental Information Report ('PEIR') and summarised in a Non-Technical Summary ('NTS') and were made available for the first consultation. A H2Teesside Project Update Brochure that includes information on whether the conclusions of the PEIR are affected by the changes to the Project is included with the Consultation Documents.

### **Consultation Documents**

The Consultation Documents relating to the Project, including plans and maps showing the nature and location of the Project can be downloaded via the below link to a secure fileshare site:

<https://dwd.ctit.co/url/fhjwzeicnq2spvya>

The Consultation Documents include:

- a plan showing the extent of the current Project Site boundary edged in red and the areas that have been removed and those that have been added since the first consultation;
- a H2Teesside Project Update Brochure that includes information on whether the conclusions of the Preliminary Environmental Information Report ('PEIR') produced for the first consultation are affected by the changes to the Project that are the subject of this second consultation, which is also being sent to people living within the vicinity of the Project Site;
- the Preliminary Environmental Information Report and its Non-Technical Summary produced for the first consultation and accompanying plans and maps;
- the Consultation Brochure produced for the first consultation;
- the Consultation Leaflet produced for the first consultation, which was sent to people living within the vicinity of the Project Site; and
- the Section 48 Notice that is being published for the second consultation.

The Consultation Documents are available to download and view free of charge from the Project Website: [www.h2teesside.co.uk](http://www.h2teesside.co.uk) until 23 January 2024.

If you are unable to access the fileshare site or the Project Website, please email: [info@h2teesside.net](mailto:info@h2teesside.net) or telephone: 0800 080 3028 and you will be offered a paper copy of the Consultation Documents free of charge (with the exception of the PEIR which will be charged at a maximum of £250) or a USB device containing the Consultation Documents free of charge. Any details you provide to us via email or telephone will be subject to our Privacy Notice: <http://h2teesside.co.uk/privacy>



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**Responding to the Consultation**

If you wish to make comments or representations in respect of the Project, these should be sent to the Applicant. Please include your name and an address where any correspondence relating to the Project can be sent. Comments and representations may be submitted in the following ways:

**Email:** [info@h2teesside.net](mailto:info@h2teesside.net)

**Post:** Freepost H2TESSIDE

**Telephone:** Freephone 0800 080 3028

**Project Website:** [www.h2teesside.co.uk](http://www.h2teesside.co.uk)

Any comments received will be analysed by the Applicant and any appointed agent of the Applicant, and copies may be made available in due course to the SoS, PINS and other relevant statutory authorities so that your comments can be noted. For certain parties, those who own an interest in land or are affected by the Project, the Applicant is under a statutory duty to publish names and addresses as part of its development consent application. In respect of other people, we will request that your personal details are not placed on public record and these will be held securely by the Applicant in accordance with the Data Protection Act 1998 and the General Data Protection Regulation and used solely in connection with the consultation process and subsequent development consent application and, except as noted above, will not be passed to third parties. Please refer to our Privacy Notice: <http://h2teesside.co.uk/privacy>

Please note that all comments and representations must be received by the Applicant no later than **11.59pm on 23 January 2024**.


Yours faithfully

**Matthew Williamson – on behalf of H2Teesside Limited**

Enc. Section 48 Notice

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## APPENDIX 9: NGET SECOND CONSULTATION RESPONSE, 22 JANUARY 2024


 **Vicky Cashman** <[redacted]@ardent-management.com>  
to me ▾ 22 Jan 2024, 12:49 ☆ ↶ ⋮

Dear Sir/Madam,

NGET wishes to confirm that the contents of its previous consultation response (as attached) still remain valid in relation to the most recent further consultation for the H2 Teesside DCO.




If you have any further queries please do not hesitate to contact me.


Kind Regards  
Vicky



**Vicky Cashman**  
Land and Planning Consultant

Job: [redacted]  
Tel: [redacted]  
Email: [redacted]@ardent-management.com  
Web: [www.ardentmanagement.com](http://www.ardentmanagement.com)



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## APPENDIX 10: SECTION 56 NOTIFICATION LETTER ISSUED TO NGET, 20 MAY 2024



Date: 21 May 2024

The Chief Executive  
National Grid Electricity Transmission Plc  
1-3 Strand  
London  
WC2N 5EH

Dear Sir/Madam,

**THE H2TEESSIDE PROJECT – LAND WITHIN THE BOROUGH OF REDCAR AND CLEVELAND AND STOCKTON-ON-TEES, TEESSIDE AND WITHIN THE BOROUGH OF HARTLEPOOL, COUNTY DURHAM**

**NOTIFICATION IN ACCORDANCE WITH SECTION 56 'NOTIFYING PERSONS OF ACCEPTED APPLICATION' OF THE PLANNING ACT 2008 & REGULATION 8 'NOTICE OF ACCEPTED APPLICATION' OF THE INFRASTRUCTURE PLANNING (APPLICATIONS: PRESCRIBED FORMS AND PROCEDURE) REGULATIONS 2009**

**PUBLICITY IN ACCORDANCE WITH REGULATION 16 'ACCEPTED APPLICATION – PUBLICITY AND CONSULTATION FOR EIA DEVELOPMENT' OF THE INFRASTRUCTURE PLANNING (ENVIRONMENTAL IMPACT ASSESSMENT) REGULATIONS 2017**

**PLANNING INSPECTORATE REFERENCE: EN070009**

H2 Teesside Limited (whose registered office is Chertsey Road, Sunbury on Thames, Middlesex, TW16 7BP) (the 'Applicant') is writing to you in accordance with Section 56 'Notifying persons of accepted application' of the Planning Act 2008 (the 'PA 2008'), Regulation 8 'Notice of accepted application' of 'The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009' (the 'APFP Regulations') and Regulation 16 'Accepted application – publicity and consultation for EIA development' of 'The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017' (the '2017 EIA Regulations').

The Applicant submitted an application (the 'Application') for a Development Consent Order (a 'DCO') to the Secretary of State (the 'SoS') for the Department for Energy Security and Net Zero ('DESNZ') on 25 March 2024. The Application was received by the Planning Inspectorate ('PINS'), acting on behalf of the SoS, and accepted for examination on 22 April 2024. The reference number assigned to the Application by PINS is EN070009.

The Application seeks development consent for the construction, operation and maintenance of the H2Teesside Project (the 'Proposed Development') on land within Teesside and County Durham.

The Proposed Development will use natural gas to produce hydrogen (known as 'blue' hydrogen) with the CO<sub>2</sub> created during the hydrogen production processes being captured and compressed for onward transportation and storage, under agreement with the Northern

Endurance Partnership ('NEP'). NEP will store the CO<sub>2</sub> securely below ground within the Endurance storage site and other nearby CO<sub>2</sub> stores that NEP holds CO<sub>2</sub> storage licences for. These are located approximately 145 kilometres offshore from Teesside under the North Sea.

The onshore elements of the NEP infrastructure on Teesside are part of the Net Zero Teesside ('NZN') Project and have been the subject of an application for development consent. The SoS for DESNZ granted the NZN development consent application on 16 February 2024. The NZN DCO came into force on 11 March 2024.

The Proposed Development and NEP form part of the East Coast Cluster ('ECC'). The ECC has been selected as one of the first two carbon capture, usage and storage ('CCUS') clusters to be taken forward by the UK Government. The ECC has the potential to remove almost 50% of the UK's total industrial clusters' carbon dioxide emissions, protect thousands of jobs and establish the region as a globally competitive climate-friendly hub for industry and innovation. The ECC will include a diverse mix of low-carbon projects, including industrial carbon capture, low-carbon hydrogen production, negative emissions power, and power with carbon capture. In March 2023, the Proposed Development was selected by DESNZ as one of the first three projects to connect to the ECC.

The low-carbon hydrogen produced by the Proposed Development will be supplied via a new hydrogen pipeline network to existing businesses on Teesside. By replacing the use of natural gas, the Proposed Development will help existing heavy industry on Teesside reduce its carbon dioxide emissions, consistent with the Government's objective to decarbonise the UK economy and achieve its legally binding target of net zero greenhouse gas emissions by 2050.

The Proposed Development Site (the 'Site') lies within the administrative boundaries of the boroughs of Redcar and Cleveland south of the River Tees and Stockton-on-Tees north of the Tees on Teesside and within the borough of Hartlepool in County Durham, also north of the Tees. The Site extends to a total area of approximately 507 hectares.

In accordance with Section 56 of the PA 2008 and Regulation 8 of the APFP Regulations, this letter and the attached Section 56 Notice provides notification that the Application was accepted for examination by PINS, acting on behalf of the SoS, on 22 April 2024. The Section 56 Notice provides further information on the Application and the Proposed Development and how the documents that comprise the Application (the 'Application Documents') can be inspected.

The letter and Section 56 Notice have been served on you, as you have been identified as either a person or body prescribed by the SoS under Section 56 of the PA 2008 and related regulations who must be notified of the acceptance of the Application, or a person or body who the Applicant considers may have an interest in the Application.

The Proposed Development is an Environmental Impact Assessment ('EIA') development under the 2017 EIA Regulations and the Application includes an Environmental Statement (an 'ES') documenting the findings of the EIA undertaken.

Further to Section 56 of the PA 2008, the APFP Regulations and the 2017 EIA Regulations, we are also required to send to the 'consultation bodies' (prescribed persons under the PA 2008 and related regulations):

- a copy of the accepted Application and a map showing where the Proposed Development is to be sited; and
- a copy of the Environmental Statement.



This letter is therefore also accompanied by:

- a plan showing the location and extent of the Proposed Development; and
- a link to a secure fileshare site from which the Application Documents can be downloaded free of charge: <https://dwd.ctit.co/url/t6mncmfudkianaej>

The Application Documents can be inspected free of charge on the H2Teesside Project page of the PINS website at:

<https://national-infrastructure-consenting.planninginspectorate.gov.uk/projects/EN070009/documents>

For enquiries in relation to the Application Documents, and if you require alternative methods for inspecting the Application Documents, please email: [info@h2teesside.net](mailto:info@h2teesside.net) or telephone: 0800 080 3028 and you will be offered a paper copy of Application Guide and ES Non-Technical Summary free of charge (all other Application Documents, including plans, reports, and any chapters, appendices and plans from the full ES, will be charged based on page count up to a maximum of £250) or a USB device containing the Application Documents free of charge. Any details you provide to us via email or telephone will be subject to our Privacy Notice: <http://h2teesside.co.uk/privacy>

Digital copies of the Application Documents will also be available to view free of charge at the following inspection locations until at least 1 July 2024:

Inspection Location	Opening Times
Redcar Library, Redcar and Cleveland House, Kirkleatham Street, Redcar, TS10 1RT	Monday to Wednesday 9am to 6pm; Thursday 9am to 5pm; Friday 9am to 6pm; Saturday 9.30am to 12.30pm; Sunday closed
Stockton Central Library, Church Road, Stockton, TS18 1TU	Monday & Wednesday 8.30am to 6pm; Tuesday & Thursday 8.30am to 8pm; Friday 8.30am to 6pm; Saturday 09.30am to 4pm; Sunday closed
Hartlepool Civic Centre, Victoria Road, Hartlepool, TS24 8AY	Mondays to Thursdays 9am to 5pm; Fridays 9am to 4.30pm; Saturday and Sunday closed

Any representations (giving notice of any interest in, or objections) about the Application must be made to PINS using its Registration and Relevant Representation Form. This Form is available to complete on the H2Teesside Project page of the PINS website:

<https://national-infrastructure-consenting.planninginspectorate.gov.uk/projects/EN070009/register/register-have-your-say>

A paper copy of the Registration and Relevant Representation Form can also be obtained from PINS and returned by post. If you request a paper copy of the Form from PINS, please ensure there is enough time for the Form to be sent to you and for you to post it back to the Inspectorate before the deadline for responding expires.

If you require guidance, or other methods, to obtain and complete a PINS Registration and Relevant Representation Form, please telephone PINS on **0303 444 5000** or email [h2teessideproject@planninginspectorate.gov.uk](mailto:h2teessideproject@planninginspectorate.gov.uk). The postal address for PINS (for the return of forms) is: The Planning Inspectorate (National Infrastructure Directorate), Temple Quay House, Temple Quay, Bristol, BS1 6PN.

Any Registration and Relevant Representation Form must be received by PINS no later than **1 July 2024**.

Further information about registering as an Interested Party is available in Advice Note 8.2: How to register to participate in an Examination on the PINS website at: <https://www.gov.uk/government/publications/nationally-significant-infrastructure-projects-advice-note-eight-overview-of-the-nationally-significant-infrastructure-planning-process-for-members/nationally-significant-infrastructure-projects-advice-note-82-how-to-register-to-participate-in-an-examination>

Representations will be made public and will be subject to PINS' Privacy Policy at: <https://www.gov.uk/government/publications/planning-inspectorate-privacy-notice/customer-privacy-notice>

Yours faithfully

**Matthew Williamson – on behalf of H2Teesside Limited**

Enc. Section 56 Notice  
Site Location Plan



## APPENDIX 11: CONSULTATION ON PROPOSED CHANGES TO THE DCO APPLICATION LETTER ISSUED TO NGET, 4 SEPTEMBER 2024

Date: 4 September 2024  
Our Ref: EN070009

**DWD**  
69 Carter Lane  
London  
EC4V 5EQ

The Chief Executive  
National Grid Electricity Transmission Plc  
1-3 Strand  
London  
WC2N 5EH

Dear Sir/Madam

**THE H2TESSIDE PROJECT – LAND IN THE BOROUGH OF REDCAR AND CLEVELAND SOUTH OF THE RIVER TEES, AND STOCKTON-ON-TEES NORTH OF THE TEES ON TESSIDE, AND WITHIN THE BOROUGH OF HARTLEPOOL IN COUNTY DURHAM, ALSO NORTH OF THE TEES.**

**CONSULTATION ON PROPOSED CHANGES TO THE H2TESSIDE DEVELOPMENT CONSENT ORDER APPLICATION**

I write on behalf of H2 Teesside Limited (the 'Applicant') in respect of the H2Teesside Project (the 'H2T Project' / the 'Proposed Development').

The H2Teesside Development Consent Order ('DCO') Application (the 'Application') was submitted on 25 March 2024 by the Applicant to the Planning Inspectorate ('PINS'), acting on behalf of the Secretary of State for Energy Security and Net Zero. The Application was subsequently accepted for examination on 22 April 2024. The Application (Application Reference: EN070009) is currently under examination by a panel of Examining Inspectors appointed by PINS (the 'Examining Authority').

Further details on the H2T Project are provided in the Application. The Application, which comprises an Application Form, draft DCO, Land Plans, Works Plans, other plans, drawings and maps, the Environmental Statement and its Non-Technical Summary, a Consultation Report and other documents, is available for inspection free of charge at the Documents tab on the PINS website via the following link:

<https://national-infrastructure-consenting.planninginspectorate.gov.uk/projects/EN070009>

Since submission of the Application, the Applicant has continued to engage with Interested Parties with a view to addressing their comments and agreeing common ground, while also continuing with detailed project development. This work has identified a number of changes that the Applicant is now seeking to make to the Proposed Development. The changes proposed reflect further engineering and design development of the Proposed Development, changes to construction approach and techniques, reductions in the Order Limits (from approximately 507 to 406.9 hectares) and seek to respond to comments received from Interested Parties, deliver improvements to the Proposed Development, seek rights over an existing gas pipeline, remove optionality, and reduce its overall impacts. The Applicant is therefore intending to submit a change request to the Examining Authority ('ExA').

The Applicant has either previously consulted you on the Proposed Development or you have recently been identified through further land referencing and enquiries as having an interest in land within the

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Registered Office: Spring Lodge, 172 Chester Road, Helsby, Cheshire, WAG 0AR



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Order Limits. Therefore, in advance of submitting the change request to the ExA, the Applicant is carrying out non-statutory consultation on the proposed changes, and we are writing to notify you of this consultation and to provide you with an opportunity to comment on the proposed changes.

A Consultation Document explaining the proposed changes, environmental information about them and plans showing the location and extent of the proposed changes are being made available.

The Consultation Document and a copy of the Applicant's notice publicising this consultation can be downloaded free of charge from the Consultation Document tab on the project website:

[www.h2teesside.co.uk](http://www.h2teesside.co.uk)

Should you wish to request a hard copy of the Consultation Document or a USB containing it please:

- Telephone: 0800 080 3028 (09:00 – 17:00 Monday to Friday)
- Email: [info@h2teesside.net](mailto:info@h2teesside.net)

The proposed changes are summarised in the table below with reference to the relevant Works Numbers (Nos.) set out at Schedule 1 of the draft DCO and shown on the Works Plans:

### Proposed changes to the H2Teesside DCO Application

Proposed Change Number	Description/relevant Work Number
1	Addition of a second flare stack for Phase 2 of the Hydrogen Production Facility located at the Main Site (no change to Order Limits). <b>(Work No. 1A.2)</b>
2.A	Reduction at Cowpen Bewley (2.5 hectares removed from the Order Limits). <b>(no Work No.)</b>
2.B	Reduction at Venator (2.5 hectares removed from the Order Limits). <b>(Work Nos. 6A.1 and 6B.1)</b>
2.C	Reduction to the east of the Main Site (50.7 hectares removed from the Order Limits). <b>(Work No. 3A, 3B.2, 3B.3, 4, 5, 7A and 7B)</b>
2.D	Reduction to the west of the Main Site and at the Main Site access point (27.9 hectares removed from the Order Limits). <b>(Work No. 6A.1)</b>
2.E	Reduction at Lazenby (4.9 hectares removed from the Order Limits). <b>(Work Nos. 6A.1 and 9)</b>
2.F	Removal of Northern Gas Networks Above Ground Installation ('AGI') off the A178 Seaton Carew Road (5.3 hectares removed from the Order Limits). <b>(Work No. 6B.3)</b>
3	Removal of temporary construction compound at Redcar Bulk Terminal (8.1 hectares removed from the Order Limits). <b>(Work No. 9)</b>
4	Addition of a temporary construction compound on land at Navigator Terminals (no change to the Order Limits). <b>(Work No. 9)</b>

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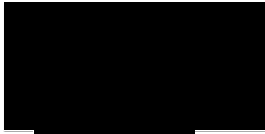
Proposed Change Number	Description/relevant Work Number
5	Removal of air separation unit from Phase 1 of the Hydrogen Production Facility (no change to the Order Limits). <b>(Work No. 1A.1)</b>
6	Reduction in plant at temporary construction compounds (no change to the Order Limits). <b>(Work No. 9)</b>
7	Updates to building dimensions at the Main Site (no change to the Order Limits). <b>(Work No. 1)</b>
8	Inclusion of additional land for existing Natural Gas pipeline (1.8 hectares of land added to the Order Limits) and changes to rights required within the Order limits to allow for re-purposing of that existing pipeline. <b>(new Work No. 2C)</b>
9	Removal of an AGI within the Work No. 2B area (no change to the Order Limits). <b>(Work No. 2B)</b>

### Responding to the consultation

Any responses to this consultation must be submitted to the Applicant by **11:59pm on 7 October 2024** via one of the methods below:

- Complete an online version of the comments form on the project website: [www.h2teesside.co.uk](http://www.h2teesside.co.uk)
- Emailing comments to: [info@h2teesside.net](mailto:info@h2teesside.net)
- By post to: **Freepost H2TEESSIDE**

Yours faithfully



Senior Associate  
DWD – on behalf of H2 Teesside Limited

Enc. Consultation of Proposed Changes Plan

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## APPENDIX 12: CONSULTATION FOR THE CHANGE REQUEST PURSUANT TO THE CA REGS LETTER, 25 OCTOBER 2024

Date: 25 October 2024  
Our Ref: EN070009

**DWD**  
69 Carter Lane  
London  
EC4V 5EQ

The Chief Executive  
National Grid Electricity Transmission Plc  
1-3 Strand  
London  
WC2N 5EH

Dear Sir or Madam

### THE H2TESSIDE PROJECT

### REGULATION 7 'NOTICE OF PROPOSED PROVISION' OF THE INFRASTRUCTURE PLANNING (COMPULSORY ACQUISITION) REGULATIONS 2010

### NOTICE OF PROPOSED CHANGE TO AN ACCEPTED DEVELOPMENT CONSENT ORDER

I write on behalf of H2 Teesside Limited (the 'Applicant') in respect of the H2Teesside Project (the 'Proposed Development').

The H2Teesside Development Consent Order Application (the 'DCO Application') was submitted on 25 March 2024 by the Applicant to the Planning Inspectorate ('PINS'), acting on behalf of the Secretary of State for Energy Security and Net Zero. The DCO Application was subsequently accepted for examination on 22 April 2024. The DCO Application (Application Reference: EN070009) is currently under examination by a panel of Examining Inspectors appointed by PINS (the 'Examining Authority').

Further details on the Proposed Development are provided in the DCO Application. The DCO Application, which comprises an Application Form, draft DCO, Land Plans, Works Plans, other plans, drawings and maps, the Environmental Statement and its Non-Technical Summary, a Consultation Report and other documents, is available for inspection free of charge on the Proposed Development's Project Page on the PINS website on the Documents tab and via the following link:

<https://national-infrastructure-consenting.planninginspectorate.gov.uk/projects/EN070009>

The Applicant has recently consulted on a number of changes to the DCO Application. The changes proposed reflect further engineering and design development of the Proposed Development, changes to construction approach and techniques and reductions in the Order Limits (from approximately 507 to 406.9 hectares). They also seek to respond to comments received from interested parties, deliver improvements to the Proposed Development, seek rights over an existing gas pipeline, remove optionality, and reduce its overall impacts. The application for those changes to the DCO Application (the 'Change Application') was submitted to the Examining Authority on 17 October 2024. The Examining Authority made a procedural decision to accept the changes into the Examination on 21 October 2024.

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One of the changes relates to the proposed provision of additional land to facilitate the inclusion of an existing natural gas pipeline within the Order Limits of the DCO Application. This change will also involve new types of rights being imposed within the current Order Limits of the DCO Application to facilitate re-use of that pipeline where it is already within the Order Limits.

This change is required as the Applicant is looking to utilise this existing natural gas pipeline to import its own natural gas. This natural gas pipeline is currently mothballed and plans are in place to bring it back into service. The pipeline will be classified as an independent gas delivery network meaning that each of the users will need to secure their own relevant land rights to legally enable the import of natural gas. The proposed provision of additional land will secure these rights for the Proposed Development.

The additional land is shown shaded pink and blue on the on the Supplementary Land Plans [Examination Library Ref. CR1-005] that form part of the Change Application. The Supplementary Land Plans can be viewed on the Project Page on the PINS website on the Documents tab via the link above.

This letter is also accompanied by a plan showing the additional land (the 'Additional Land Plan').

The letter is also accompanied by a notice pursuant to Regulation 7 of 'The Infrastructure Planning (Compulsory Acquisition) Regulations 2010' that relates to the consultation on this proposed provision of additional land following the submission by the Applicant of the Change Application to the Examining Authority on 17 October 2024.

The notice provides information about how to inspect copies of the Change Application documents; how to request printed copies of the documents; how to make a Relevant Representation on the Change Application to PINS; and the deadline for the submission of Relevant Representations. That deadline is **11.59pm on 29 November 2024**.

Yours faithfully



**Associate Director  
DWD – on behalf of H2 Teesside Limited**

Enc. Additional Land Plan  
Notice pursuant to Regulation 7 of The Infrastructure Planning (Compulsory Acquisition) Regulations 2010