

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: 8.25.5 Response to ExQ2.5 Climate Change

Planning Act 2008



Applicant: H2 Teesside Ltd

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1.0 INTRODUCTION

1.1 Overview

- 1.1.1 This document has been prepared on behalf of H2 Teesside 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 The purpose of this document is to set out the Applicant's responses to the Examining Authority's ExQ2.5 on Climate Change, which were issued on 28 November 2024 [PD-015]. This document contains a table which includes the reference number for each relevant question, the ExA's comments and questions and the Applicant's responses to each of those questions.

EXQ2	QUESTION TO:	QUESTION:	RES
Q2.5.1 App	Applicant	The Applicant's 'Environmental Screening Assessments for Proposed Development Changes' [CR1 044] at Table 4-1 (Page 53) screens out Change 1, which introduces an additional flare. The Applicant states that all of the Proposed Development Changes except Change 1 would result in a positive impact to climate assessments during the construction, operation and decommissioning of the Proposed Development. The assessment set out in Appendix 19A Climate Change Resilience Assessment [APP-215] therefore represents the worst-case scenario.	As presented in Tables 19-8 and 19-9 of C 072] lifetime emissions from flare pilots, f 209,122 tCO2e (there may be a slight varia for approximately 1% of total operational only make up a proportion of these emiss that an additional flare pilot (Change 1) w operational emissions.
		The Applicant advises that the introduction of an additional flare, as proposed by Change 1, with the same operational specification as assessed in the ES, would result in an increase in greenhouse gas (GHG) but considers this increase would be immaterial to the overall assessment (given that flare pilot emissions would be less than 1% of the Proposed Development's operational GHG emissions). The Applicant also states that GHG increases, associated with Change 1, would be far exceeded by the benefits being introduced by Change 5.	Additionally, the 42.85% reduction in pow or 140 MW to 80 MW (Phase 1+2) that wi to a larger reduction in GHG emissions, th the projected decarbonisation of the UK e electricity from table 19-8 and 19-9 of Cha equate to 841,584 tCO2e (2 x 64223 for pl Reducing this figure by 42.85% leads to a Due to the changes described above, the result in an overall positive GHG benefit, r Proposed Development.



ESPONSE

f Chapter 19: Climate Change of the ES [APPs, flue gas, and vent and seal leakage equate to ariation due to rounding of figures), accounting al emissions. As emissions from the flare pilots issions, (approximately 27%) it is anticipated will not contribute more than 1% of annual

ower demand from 70 MW to 40 MW (Phase 1) will result from Change 5 [CR1 044] will equate than those from the flare pilots, factoring in K energy grid. The total emissions from Chapter 19: Climate Change of the ES [APP-072] phase 1 + 23 x 31006 for phase 1 + phase 2). a reduction of 360,618 tCO2e.

ne proposed amendments to the application will t, reducing the emissions associated with the