

Humber Zero

Public Consultation Strategy

May 2022

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Glossary

Abbreviation	Definition
CAG	Phillips 66 Limited Community Advisory Group
CHP	Combined Heat and Power
CO ₂	Carbon Dioxide
CCUS	Carbon Capture, Utilisation and Storage
EIA	Environmental Impact Assessment
ES	Environmental Statement
GT	Gas Turbine
ICZ	Inner Consultation Zone
LPA	Local Planning Authority
MT	Million tonnes
MW	Megawatt
NELC	North East Lincolnshire Council
NLC	North Lincolnshire Council
OCZ	Outer Consultation Zone
PCC	Post-combustion Carbon Capture
VCR	Virtual Consultation Room
VPI	VPI Immingham LLP

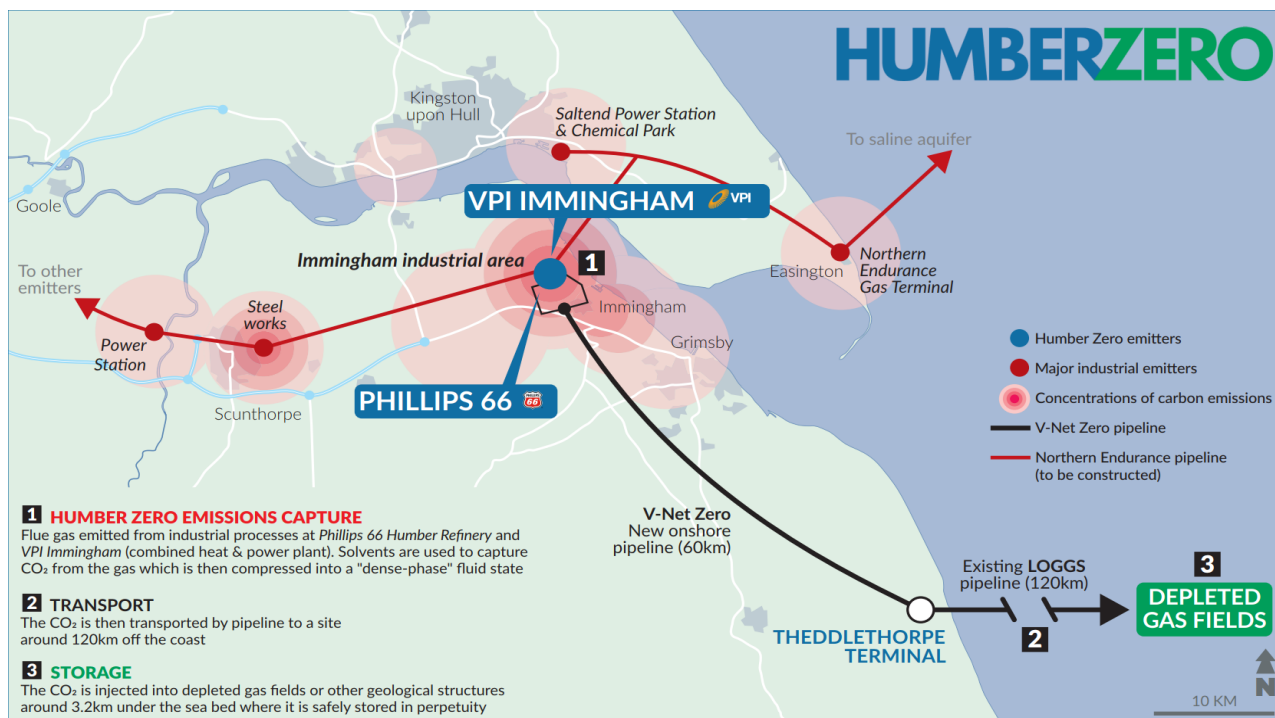
1.0 Introduction

1.1 Background to Humber Zero

- 1.1.1 Humber Zero is a large-scale decarbonisation programme, being advanced in partnership by Phillips 66 Limited and VPI Immingham LLP (VPI), that aims to remove up to 8 million tonnes (MT) of atmospheric CO₂ emissions per annum from the Immingham industrial cluster by 2030 through the deployment of a number of technologies such as Carbon Capture, Storage (CCUS). The Immingham industrial cluster is located on the south bank of the River Humber, approximately 1 kilometre from the coastline with the North Sea.
- 1.1.2 Phillips 66 Limited own and operate the Humber Refinery at Eastfield Road, South Killingholme, which along with the adjacent PRAX Lindsey Refinery provides around 25% of the UK's total oil refining capacity. Additionally the Humber Refinery is Europe's only supplier of graphite coke for Electric Vehicle (EV) batteries and consumer goods and is a UK leader in the production of lower carbon liquid fuels.
- 1.1.3 VPI Immingham LLP own and operate the 1,200 megawatt (MW) gas-fired combined heat and power (CHP) plant located to the north-east of the Humber Refinery at Rosper Road. The CHP plant operates 24/7 to provide the electricity and steam that is critical to the operation of the Humber and Lindsey refineries.
- 1.1.4 Humber Zero is ideally placed. It is located in the Humber region, which emits 40% of the UK's industrial emissions¹ and in close proximity to depleted oil and gas fields in the North Sea (within which captured CO₂ can be stored), as well as to proposed CO₂ transportation infrastructure (pipelines) for taking the captured CO₂ offshore for permanent storage. It therefore has the potential to play a major role in the decarbonisation of industry and power generation within the Humber region.
- 1.1.5 Humber Zero will include retrofitting carbon capture technology into some of the processes at the Humber Refinery and also to the VPI CHP plant. Post-combustion, the CO₂ emissions from some of the refinery processes and the CHP plant will be captured at source, compressed and then transported via the one of the proposed CO₂ transportation pipelines in the Humber region for storage in the North Sea.
- 1.1.6 It is estimated that Humber Zero could represent a total investment of £1.2 billion. Humber Zero is expected to create 2,500 jobs during construction, 200 permanent jobs and safeguard 20,000 direct and indirect jobs in the Humber region.
- 1.1.7 The location of Humber Zero and the indicative routes of the proposed CO₂ transportation infrastructure that it may connect to is shown below in **Figure 1.1**.

1. HM Government, Industrial Decarbonisation Strategy Press Release, 17 March 2021

Figure 1.1 – Location of Humber Zero and CO₂ transportation infrastructure



1.1.8 CCUS is a key part of the Government’s strategy set out in ‘The Ten Point Plan for a Green Industrial Revolution’ (November 2020) and the ‘Energy White Paper: Powering our Net Zero Future’ (December 2020) to decarbonise industry and power generation in the UK in order to achieve its legally binding target of net zero greenhouse gas emissions by 2050.

1.2 The Humber Zero proposals

1.2.1 Humber Zero will include the following proposals:

- A Post-combustion Carbon Capture (PCC) Plant within the Humber Refinery for the Fluid Catalytic Cracker.
- A PCC Plant within the VPI CHP Plant for two of the Gas Turbines (GTs) – GTs 1 and 2 – and the auxiliary boiler.

1.2.2 Each of the PCC Plants will have its own CO₂ compression facilities as well as CO₂ pipelines that will transport the captured and compressed CO₂ to the interface with whichever CO₂ transportation pipeline is selected; this will then take the captured CO₂ offshore for permanent storage.

1.2.3 Indicative locations for the proposed PCC Plants, CO₂ compression facilities and indicative routes for the associated CO₂ pipeline connections are shown below in **Figure 1.2**.

Figure 1.2 – Location of the Humber Zero Proposals



- 1.2.4 We intend to submit separate planning applications to the Local Planning Authority (LPA), North Lincolnshire Council (NLC), for the respective proposed PCC Plants and their associated works. The applications will be submitted at the same time in Quarter 1 2023, with the aim being to have obtained the required planning permissions by Quarter 2 2023. Subject to final investment decisions, which are contingent on consents being received and government policy/ funding support being in place, construction could start on the PCC Plants in 2024 and being completed by 2026-27.
- 1.2.5 The planning applications will be supported by a joint Environmental Statement (ES). The ES will document the findings of an Environmental Impact Assessment (EIA) of the proposals that will be undertaken in accordance with 'The Town and Country Planning (Environmental Impact Assessment) (England and Wales) Regulations 2017'. The EIA will assess the likely significant environmental effects arising from the proposals and identify any mitigation that is

necessary to control or reduce those environmental effects. The ES will also be accompanied by a Non-Technical Summary.

- 1.2.6 In advance of undertaking the EIA, we have obtained an 'EIA Scoping Opinion' from NLC as to the scope of the EIA work to be undertaken. The formal EIA scoping opinion request was submitted on 25 January 2022. NLC issued its Scoping Opinion on 11 March 2022.
- 1.2.7 We will also engage with key technical consultees such as the Environment Agency and Natural England to discuss and agree the details of the EIA work to be undertaken.
- 1.2.8 Prior to the submission of the planning applications we will undertake pre-application consultation on the proposals. Environmental information will be made available during our pre-application consultation. There will be an opportunity to comment upon and provide feedback on the proposals and the environmental information during the pre-application consultation.
- 1.2.9 Future Humber Zero proposals could involve further PCC plants as well as hydrogen production and use.

1.3 The purpose of this document

- 1.3.1 This purpose of this document (the Public Consultation Strategy) is to outline the proposed pre-application community consultation for the Humber Zero proposals. It sets out who will be consulted, when, how, and also the timescales for that consultation.
- 1.3.2 The Public Consultation Strategy has been prepared taking account of good practice in respect of pre-application consultation and draws upon the project team's experience of having carried out consultation on a number of other major infrastructure projects within the South Humber area, notably the development consent applications for the VPI Open Cycle Gas Turbine, South Humber Bank Energy Centre and Keadby 3 projects. In preparing the Public Consultation Strategy the Applicants have also had regard to NLC's Statement of Community Involvement (adopted 2018).
- 1.3.3 We will keep the Public Consultation Strategy under review in light of the ongoing situation with regard to the Coronavirus (COVID-19) pandemic in England and it will be adapted accordingly, if required, in line with UK Government legislation and NHS and UK Health Security Agency advice and guidance.

2.0 Approach to Pre-Application Consultation

2.1 Introduction

- 2.1.1 This section sets out our proposed approach to pre-application community consultation for the Humber Zero proposals. This includes the objectives of the consultation, stages and timescales, who it is proposed to consult, and how.
- 2.1.2 The approach we will take to the consultation will have regard to any other consultations being undertaken in the locality (for example, any consultation on the emerging CO₂ transportation infrastructure proposals). We will look to collaborate with the promoters of those proposals, and where appropriate consider combining consultations, to ensure that the local community and other stakeholders are provided with consistent messaging and clear information so that the different proposals are not confused with each other.

2.2 Consultation objectives

- 2.2.1 The overarching objectives for consultation on the Humber Zero proposals are:
- to raise awareness of what is being proposed, including what is Carbon Capture, Utilisation and Storage (CCUS) and ensure that the local community, local elected representatives, local authorities and other stakeholders have a full understanding of Humber Zero;
 - to provide clear and concise information on the proposals and to keep stakeholders informed throughout the pre-application stage;
 - to make information available in a number of ways in order to reach all sections of the community;
 - to provide stakeholders with the opportunity and time to submit comments and feedback while the proposals are still at a formative stage and to provide them with a number of different ways in which to do so;
 - to review the comments and feedback received and show how regard has been had to these in finalising the applications for planning permission; and
 - to keep stakeholders informed of progress following the submission of the applications for planning permission.
- 2.2.2 In defining the above objectives, we have had regard to NLC's Statement of Community Involvement (adopted 2018). The objectives have also been informed by the project team's experience of undertaking pre-application consultation on other major infrastructure projects within the South Humber area.

2.3 Consultation stages and timescales

- 2.3.1 We are proposing a two-stage approach to the pre-application consultation on the Humber Zero proposals as follows:
- **Stage 1 Consultation:** this will involve early engagement with key stakeholders to help ensure that they are aware of Humber Zero and the emerging proposals. It is envisaged that this will involve offering briefings and meetings to the Phillips 66 Limited Community Advisory Group (CAG), local parish and town councils within the vicinity of the proposals (e.g. Habrough Parish Council, Immingham Town Council, East Halton Parish Council and North and South Killingholme Parish Councils), other local elected representatives (e.g. wards councillors and MPs), neighbouring business and

operators, and relevant officers at NLC and adjoining North East Lincolnshire Council (NELC). We also plan to arrange a Humber Zero 'launch event' toward the end of April 2022 for key stakeholders. There will also be some press and social media coverage on the emerging proposals.

2.3.2 This early engagement will take place in **March and April 2022**.

- **Stage 2 Consultation:** this will be the main stage of consultation and will involve us consulting on our more developed proposals including available environmental information. A wider range of consultation methods will be employed during this stage of the pre-application consultation, including the issue of newsletters to residents and businesses within the vicinity of the proposals, online consultation events and tools, physical face-to-face consultation events (subject to the situation with regard to COVID-19), press and social media coverage, amongst other methods. Further information on the proposed consultation methods can be found in Section 3.0.

2.3.3 The **Stage 2 Consultation** will commence in **late May 2022 and run to the early July 2022**. People will be invited to provide comments and feedback (it will be possible to do this in a number of ways) by a specified date. The Stage 2 consultation period will be approximately 6-weeks in total, which exceeds the established 'good practice' minimum period of 28 days for consultation.

2.3.4 As confirmed earlier, we will keep the proposed consultation methods under review in light of the ongoing situation with regard to the Coronavirus (COVID-19) pandemic and the Public Consultation Strategy will be adapted accordingly, if required.

2.4 What will we consult on?

2.4.1 The Stage 1 Consultation will be used to introduce the project partners (Phillips 66 Limited and VPI) and what we do, raise awareness of Humber Zero generally and outline the emerging proposals. The information provided will focus upon the broad objectives of Humber Zero, the potential locations for the proposals, the work required to support the applications for planning permission (and other consent applications), the consenting process and the timescales for the first phase.

2.4.2 The Stage 2 Consultation will be used to provide information on our more developed proposals for Humber Zero, taking account of the work that will have been undertaken by late May 2022 and will cover:

- the need for Humber Zero within the context of achieving net zero by 2050 and its role in decarbonising the Humber region;
- how the PCC Plants will work and how they will link potentially link with other decarbonisation projects in the region;
- the employment and economic benefits of the proposals;
- functional requirements and the decisions made about the design of the proposals;
- the initial findings of the EIA work at the time of the consultation and the likely significant environmental effects during the construction and operational phases of the proposals, including the duration of the construction programme;
- the measures for avoiding, minimising and/or mitigating any likely significant adverse environmental effects of the proposals, to the extent that they are defined or known at the time of the consultation;
- an update on the timescales for the proposals and the key milestones, including the submission date for the applications for planning permission;

- the information being made available during the consultation and the consultation events taking place;
- the aspects of the proposals in respect of which feedback is being invited; and
- how comments and feedback can be provided and the deadline for the receipt of these.

2.5 Where and who will we consult?

2.5.1 As confirmed above, for Stage 1 we will engage primarily with the CAG and local parish and town councils. For Stage 2, the consultation will be extended to include local residents and businesses with a wider range of consultation methods being employed, including the issue of a newsletter to residents and businesses within the vicinity of the proposals, online consultation events and tools, physical face-to-face consultation events (subject to the situation with regard to COVID-19), press and social media coverage, amongst other methods. Those consulted will include:

- The Phillips 66 Limited CAG;
- South Killingholme Parish Council;
- North Killingholme Parish Council;
- East Halton Parish Council;
- Habrough Parish Council;
- Immingham Town Council;
- District ward councillors at NLC, NELC, East Riding Council and Hull City Council;
- Local MPs;
- Adjoining operators (e.g. PRAX Lindsey Refinery, Port of Immingham); and
- Local residents and businesses within the vicinity of the proposals.

2.5.2 We will also consult with relevant officers at NLC and NELC, technical consultees such as the Environment Agency and Natural England, amongst others.

2.5.3 A 'Consultation Area' has been defined for the purposes of the Stage 2 Consultation. This comprises two zones: an Inner Consultation Zone (ICZ) and an Outer Consultation Zone (OCZ).

2.5.4 The ICZ extends approximately 5 kilometres from the Humber Zero proposals and encompasses the nearest settlements of East Halton, Habrough, Immingham and North and South Killingholme. It is considered that this is the area that has the most potential to be affected by the proposals, although we do not anticipate that there will be significant/material adverse impacts upon the local communities within this area. The ICZ will be the focus of more targeted consultation activities, for example, the issue of a newsletter to residents and businesses and the placing of posters on community notice boards.

2.5.5 The extent of the ICZ is shown below in **Figure 2.1**.

Figure 2.1 – Extent of Inner Consultation Zone



2.5.6 The OCZ has been defined by reference to the early EIA work being undertaken and extends to approximately 10 kilometres from the Humber Zero proposals. The OCZ is considered to broadly represent the maximum extent of the area within which environmental impacts, such as air quality and landscape and visual effects could occur. While we do not anticipate any significant adverse impacts within the OCZ there could be interest in the proposals from residents and business within this area. The newsletter will not be issued within the OCZ; however, notices will be placed within newspapers circulating within the OCZ to make people aware of the proposals and the consultation and a range of other methods will be employed to reach people within this area, including communications with local elected representatives and use of radio channels and online platforms.

2.5.7 The extent of the OCZ is shown in **Figure 2.2**.

Figure 2.2 – Extent of Outer Consultation Zone



3.0 Consultation Methods

3.1 Introduction

3.1.1 We propose to employ a range of consultation methods, taking account of any restrictions in place due to COVID-19, in order to ensure that the consultation on Humber Zero is effective, safe and resilient, and provides the local community and other stakeholders with sufficient opportunity to learn about the proposals and to provide comments and feedback. The range of methods employed will ensure that all sections of the community are provided with the opportunity to provide comments and feedback. The consultation methods are outlined below. These methods will be used primarily during the Stage 2 Consultation.

3.2 Press/media releases

3.2.1 Press/media releases will be used to publicise the Humber Zero proposals. A press release will be issued to the local and regional press at the start of the Stage 2 Consultation. Press releases will also provide information on how the local community can find out about the proposals and the ways in which people can provide comments and feedback.

3.3 Radio/social media/digital channels

3.3.1 Radio adverts will be placed with radio stations broadcasting within the Consultation Area (e.g. BBC Radio Humberside & BBC Radio Lincolnshire) to publicise the latest proposals, how the local community and other stakeholders can find out about the proposals and the ways in which people can provide comments and feedback. In-house and local social media and digital forums and pages (e.g. local and community Facebook pages) will also be used to further publicise the Stage 2 Consultation.

3.4 Email & Newsletter

3.4.1 An email will be sent to the CAG, local parish and town councils, district ward councillors, local MPs and other stakeholders at the start of the Stage 2 Consultation. This will provide information on how these stakeholders can find out more about the consultation and engage in the process.

3.4.2 In addition, a newsletter will be produced and sent to all residents and businesses within the ICZ at the start of the Stage 2 Consultation. This will provide information on the latest proposals, ways in which information is being provided, how further information and consultation materials can be requested, and how comments and feedback can be provided, as well as the deadline for the submission of these. The newsletter will incorporate a comments/feedback form and include a Freepost address for the return of the form.

3.4.3 The newsletter will also be sent to the stakeholders receiving the email at the start of the consultation.

3.4.4 The newsletter will include details of how people will be able to submit comments and feedback online.

3.5 Newspaper adverts/posters

3.5.1 The Stage 2 Consultation will be publicised by placing adverts in local and regional newspapers circulating across the Consultation Area. It is proposed to publish adverts for up to two consecutive weeks in advance of and during the early part of the Stage 2 Consultation in the following publications:

- Scunthorpe Telegraph;
- Grimsby Telegraph;

- Hull Daily Mail; and
- East Riding Mail.

3.5.2 Subject to COVID-19 restrictions, posters advertising the Stage 2 Consultation will also be placed in public venues (e.g. libraries, council offices) and on community notice boards.

3.6 Project website

3.6.1 A project website has been established and will be used to host consultation materials and to provide information on how people can provide comments and feedback and request hard copy documents. People will also be able to complete an online feedback form on the website. The website address is: <https://www.humberzero.co.uk/>.

3.7 Virtual meetings

3.7.1 We will host at least two virtual meetings to provide information to the local community and other stakeholders and provide a further means by which people can learn about the proposals, ask questions of the project team and provide comments and feedback. Details of the virtual meetings will be communicated through the newsletter, newspaper adverts and the posters. Details will also be provided on the project website. The virtual meetings will be hosted via the virtual consultation room (see below).

3.8 Virtual consultation room

3.8.1 To provide an alternative to physical face-to-face events, and to mitigate for any potential reintroduction of COVID-19 restrictions, an online virtual consultation room (VCR) that replicates a traditional face-to-face public consultation event will be created and made available throughout the Stage 2 Consultation. The project website will include a link to the VCR. As part of the VCR various consultation materials will be available, including videos, information boards/banners, drawings and plans, environmental information and a frequently asked questions document. This will be the same information that is made available at any physical face-to-face public consultation events held.

3.8.2 The VCR will also include an online version of the comments/feedback form for people to complete.

3.9 Face-to-face public consultation

3.9.1 Subject to COVID-19 restrictions, we intend to host up to three physical face-to-face public consultation events either within or close to the ICZ during the Stage 2 Consultation. The information provided at the face-to-face events will be the same as for the VCR. The face-to-face events will also provide an opportunity to meet and speak to members of the project team.

3.9.2 Copies of the comments/feedback form will be available for people to complete at the events or take away to complete later and send back using a Freepost address.

3.9.3 The following venues will be used for events in June 2022:

- Ashbourne Hotel, Vicarage Lane, North Killingholme, Immingham, DN40 3JL;
- Immingham Civic Centre, Pelham Road, Immingham, DN40 1QF; and
- South Killingholme Community Centre, Moat Lane, South Killingholme, DN40 3EU.

3.10 Telephone number

- 3.10.1 We will provide a telephone number for the Stage 2 Consultation so people, including those without internet access, can contact us to ask questions about the proposals, provide comments and feedback and also request hard copy documents.

3.11 Project email address

- 3.11.1 A project email address has been set up and will be included on the consultation materials and website so people can submit comments/feedback via email.

3.12 Comments/feedback form

- 3.12.1 A comments/feedback form will be made available during the consultation for people to use to submit comments and feedback. The comments/feedback form will accompany the newsletter and will also be available to complete online and at the face-to-face public consultation events. It will also be possible to return the comments/feedback form by Freepost.

4.0 Recording and Taking Account of Consultation Responses

4.1 Recording and analysis

- 4.1.1 All comments and feedback received to the consultation (including completed comments/feedback forms) will be recorded and entered into a consultation tracker. The comments and feedback received will then be carefully reviewed, analysed and grouped under specific topic or theme headings. Under each topic/theme heading the issues/matters requiring consideration will then be identified.
- 4.1.2 We will consider the topics and issues raised during the pre-application consultation for the Humber Zero proposals. In having regard to the topics and issues raised, we will identify where these have resulted in any changes to the proposals and also set out where they have not resulted in changes.

4.2 Reporting

- 4.2.1 The pre-application consultation undertaken, including the comments/feedback received to the consultation and how we have had regard to those comments, will be documented within a Consultation Report, which will form part of the applications for planning permission.
- 4.2.2 Comments/feedback received to the pre-application consultation may be made public, however, no personal information will be published. Humber Zero will comply with the requirements of the General Data Protection Regulation. A copy of Humber Zero's Privacy Notice can be viewed on the project website: <https://www.humberzero.co.uk/privacy-policy/>. This may be updated from time to time.

5.0 Contact Details

5.1 Contact Details

5.1.1 Interested parties can find out more about Humber Zero by viewing the project website: <https://www.humberzero.co.uk/> or by contacting us as follows:

- Via the project website: <https://www.humberzero.co.uk/contact/>
- By email: consultation@humberzero.co.uk
- By post: **Freepost HUMBER ZERO CONSULTATION**

