



Humber Low Carbon Pipelines project

Creating jobs and supporting the
decarbonisation of the Humber region

Project brochure | March 2022

national**grid**

The project

Our proposals are to create an onshore network of underground pipelines to transport captured carbon dioxide from the region's industrial emitters and low carbon hydrogen to replace fossil fuels.

The pipelines would connect to major industrial emitters and power stations in the Humber region, such as Drax, Keadby, British Steel, Killingholme power station and the proposed new H2H Saltend, thus accelerating their decarbonisation pathway.

The project is the backbone of Zero Carbon Humber, which together with Net Zero Teesside, forms the East Coast Cluster. In October 2021, the East Coast Cluster was selected by the Government as one of the UK's first two carbon capture, usage and storage (CCUS) clusters.

Please visit the project website at nationalgrid.com/humberpipelines to find out more. You can also contact us at any time via email, phone or Freepost with any comments or questions. Please see our contact details at the back of this brochure.

Welcome



Andrew Benjamin
CCUS Project
Director
National Grid
Ventures

As the UK's largest industrial cluster, the Humber region has a long heritage in industry and power generation, and can play a key role in the UK's energy revolution.

By drawing on its existing industries and infrastructure, the Humber can help the country achieve net zero by 2050 and protect and create tens of thousands of jobs for decades to come, while re-establishing the region as a globally-competitive, climate-friendly hub for industry and innovation.

National Grid Ventures is now working with major industrial emitters to bring forward plans to enable the decarbonisation of the Humber region.

Thank you to everyone who took part in the first public consultation held in autumn 2021. Your contributions have been heard and have helped to inform the evolution of the proposals, alongside environmental and technical considerations. In this brochure you can read a summary of the feedback received and see how we have refined and narrowed the proposed route corridor options down to a single preferred route corridor for the pipelines.

We are planning more engagement and consultation throughout 2022. You can find further details in this brochure and on the project website.

Please get in touch with the project team if you have any questions or comments.

Get involved

The Humber Low Carbon Pipelines project aims to protect local jobs and the environment by delivering the infrastructure needed to decarbonise industry across the Humber region.

Our proposal is to build an onshore network of pipelines to transport captured carbon dioxide emissions from local industry to safe and secure storage under the seabed, and enable the switch from fossil fuels to more environmentally friendly sources of energy, such as hydrogen.

In order to understand the views of the communities and local stakeholders on the proposed plan for the new infrastructure, we held the first stage of public consultation in autumn 2021 and we will be carrying out further engagement and consultation throughout 2022.

Please read this brochure and visit our website to find out more about the proposals and the important role local communities and other interested parties have to play in informing the evolution of the plans.

Preferred route corridor

Updated March 2022

In autumn 2021, we consulted local communities and stakeholders on a number of potential route corridors, within which the pipelines could be constructed. The feedback we received, together with the latest environmental and technical information, has helped us to identify a narrower single preferred route corridor for this project, running from Drax to the Holderness coast.

For more information about how this route corridor has been selected and refined, please visit our website or contact the project team.

You can see the refined preferred route corridor here.

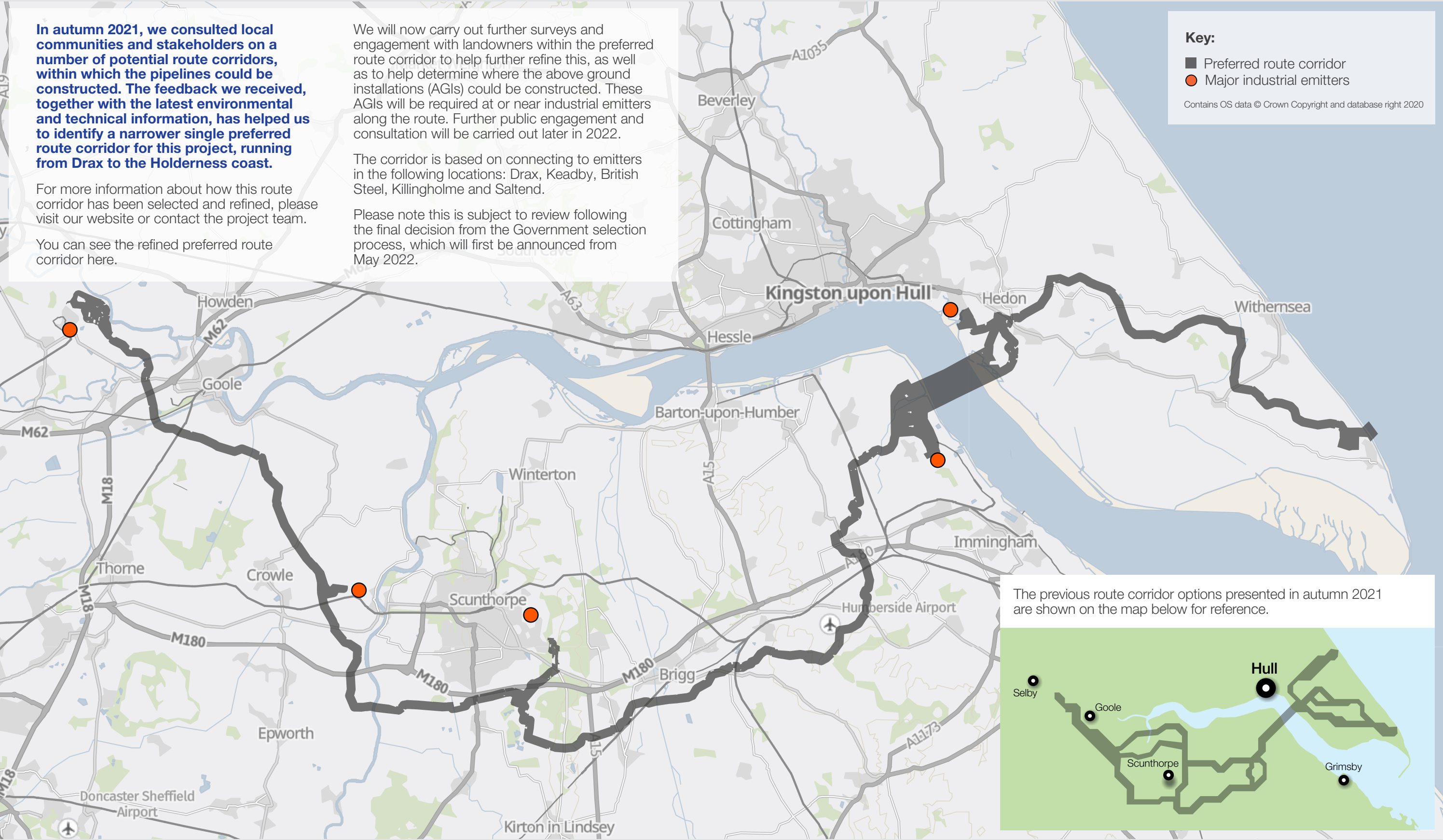
We will now carry out further surveys and engagement with landowners within the preferred route corridor to help further refine this, as well as to help determine where the above ground installations (AGIs) could be constructed. These AGIs will be required at or near industrial emitters along the route. Further public engagement and consultation will be carried out later in 2022.

The corridor is based on connecting to emitters in the following locations: Drax, Keadby, British Steel, Killingholme and Saltend.

Please note this is subject to review following the final decision from the Government selection process, which will first be announced from May 2022.

- Key:**
- Preferred route corridor
 - Major industrial emitters

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The previous route corridor options presented in autumn 2021 are shown on the map below for reference.

Stage One Consultation

Summary of feedback

Your feedback

Please see below a table with a summary of the feedback received during the first consultation that took place in autumn 2021. To see a more detailed summary of all feedback, please visit **nationalgrid.com/humberpipelines** to view our non-statutory consultation feedback report. The report also includes a summary of how National Grid Ventures has had regard to the comments.

Feedback theme	Comments most consistently raised by theme
Construction	<ul style="list-style-type: none"> Concerns about the routeing of pipelines below canals and rivers, and a request for considered design and management in these areas during the construction phase. Requests for more information about the impact of construction traffic and noise on local communities. Concerns about the cumulative construction impacts of this and other developments in the region.
Consultation	<ul style="list-style-type: none"> Consultees requested that they be kept engaged through future stages of development and consultation. Requests for more detailed information and project maps to help inform responses.
Compensation	<ul style="list-style-type: none"> Requests for more information about possible compensation for project impacts and any future works.
Environment	<ul style="list-style-type: none"> Some respondents welcomed National Grid Ventures' commitments to sustainability and biodiversity net gain. Requests for habitats for birds and other species to be considered in our plans, and for the route to avoid Sites of Special Scientific Interest (SSSI).
Routeing	<ul style="list-style-type: none"> Requests for further information about route corridor options. Some respondents suggested changes to the route at specific sections due to local considerations.
Technology	<ul style="list-style-type: none"> Recommendations for design practices for carbon dioxide pipelines to be standardised. Comments arguing that greater focus should be put on other forms of renewable energy. Feedback that more information is needed on safety measures.

East Coast Cluster

The Humber Low Carbon Pipelines project forms the backbone of Zero Carbon Humber, which is part of the East Coast Cluster. The East Coast Cluster unites Zero Carbon Humber and Net Zero Teesside with shared offshore infrastructure that will be developed by the Northern Endurance Partnership.

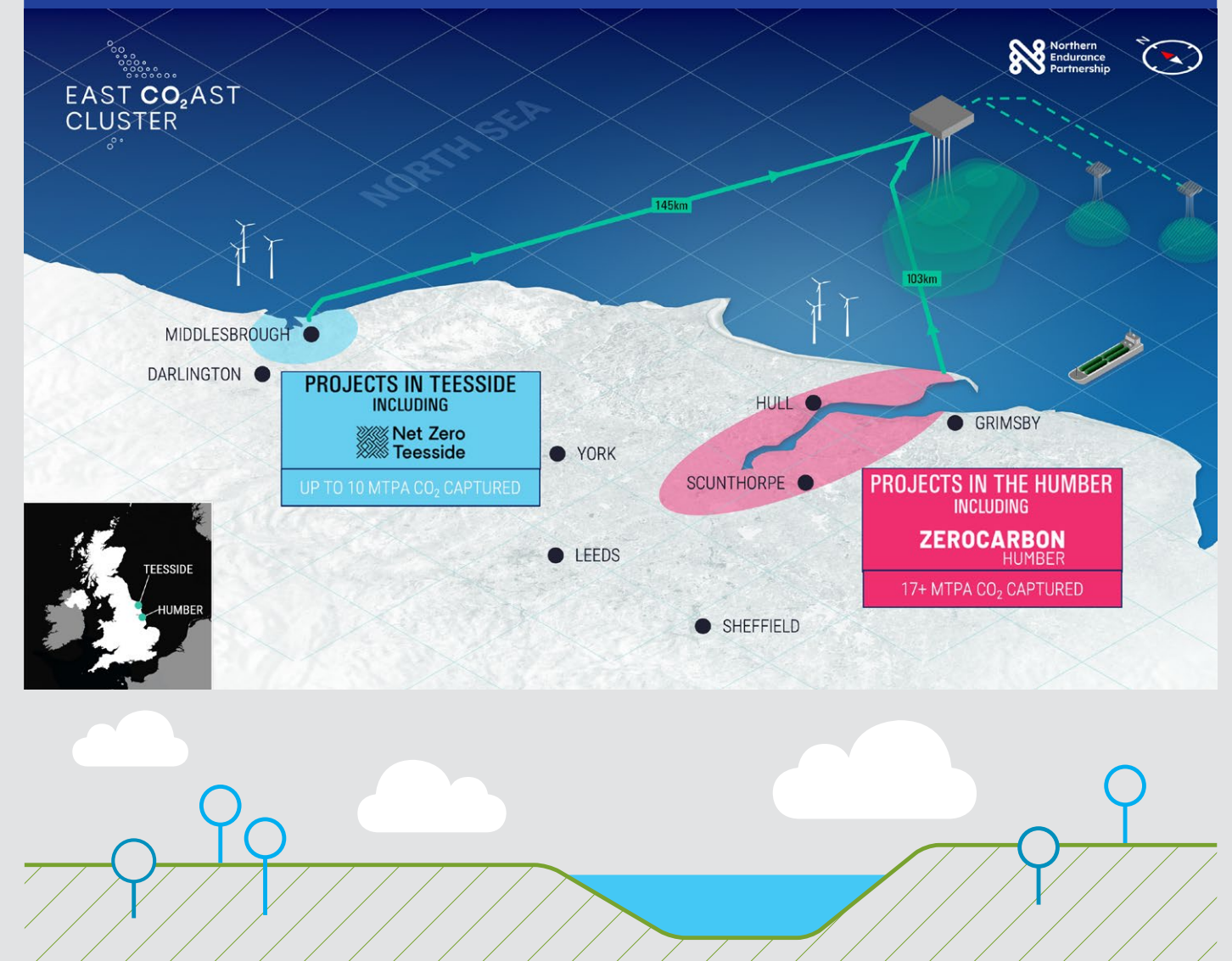
The East Coast Cluster is a wider regional ambition to decarbonise industries not just across the Humber region but also Teesside.

The proximity of these two regions provides them the opportunity to share common transport and storage infrastructure, thus capitalising on the regions' knowledge and capabilities.

The East Coast Cluster brings together communities, businesses, industry and academia to deliver the carbon capture, usage and storage (CCUS) infrastructure needed to decarbonise the Humber and Teesside regions. By its strength in diversity of technologies, the East Coast Cluster stands ready to remove 50% of the UK's industrial cluster carbon dioxide emissions. It can also play a major role in levelling up across the country, with potential to support an average of more than 25,000 jobs a year between 2023 and 2050.

In October 2021, the Government confirmed the East Coast Cluster as one of the two clusters chosen for deployment by the mid-2020s.

Below: The proposed East Coast Cluster



What happens next?

Public engagement

We will be hosting an online webinar on **Tuesday 26 April at 6-7pm** to provide an update on the progress of the project and answer any questions you may have. Details on how to register will be available on the website.

We are intending to carry out the next stage of consultation around summer 2022. This will be statutory consultation. Further information will be provided at a later date.

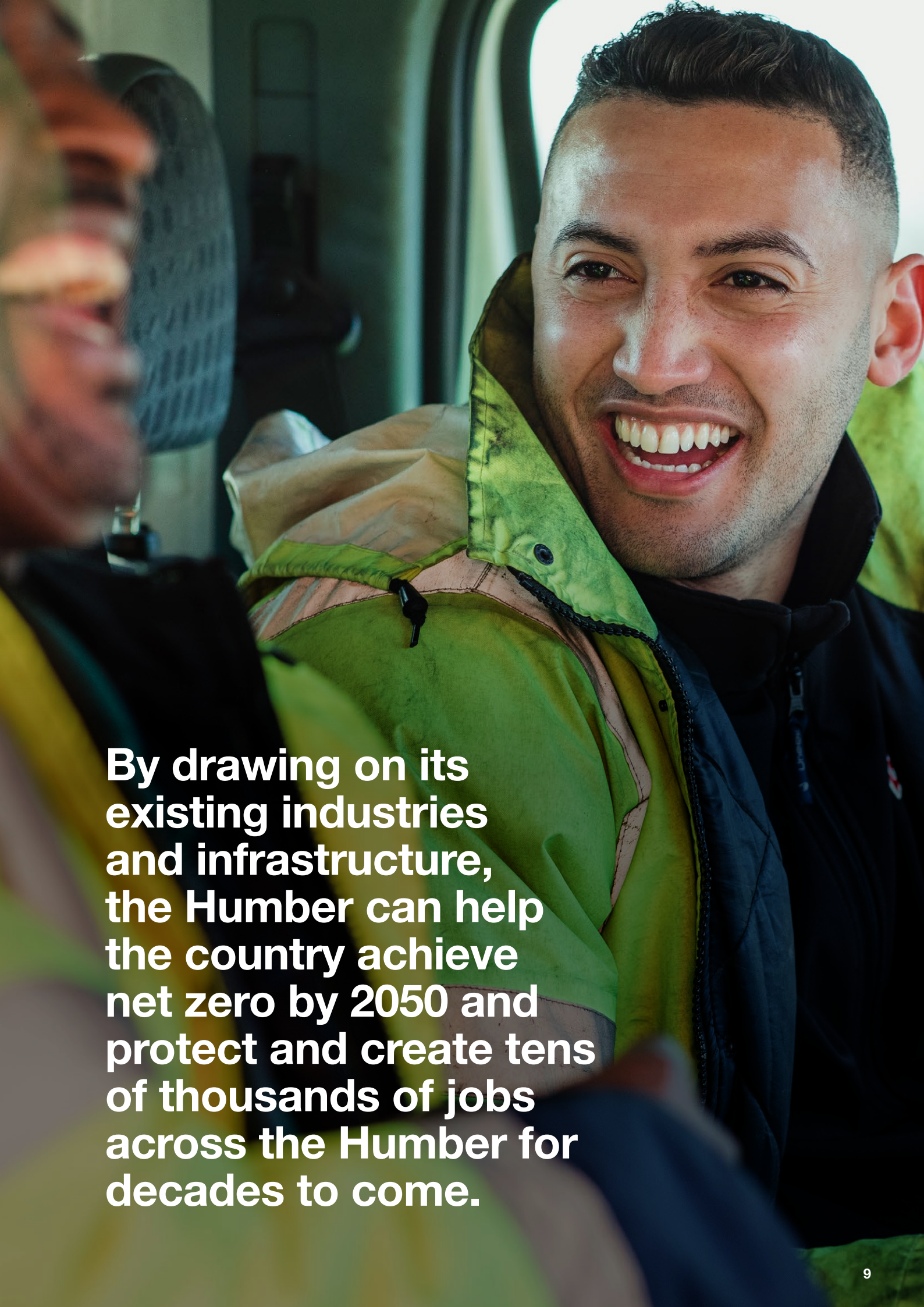
Timeline



Please note the timeline may be refined as this work progresses.



All events will be posted on our website. Please check this out in order to register, or alternatively you can call us on: **0800 860 6255**



By drawing on its existing industries and infrastructure, the Humber can help the country achieve net zero by 2050 and protect and create tens of thousands of jobs across the Humber for decades to come.

FAQ

Your questions answered



Is carbon capture, usage and storage (CCUS) safe?

CCUS technologies are well understood by the industry and have been developed around the world since the 1990s. Once the CO₂ is captured, it is then transported and stored in deep geological formations, also known as the saline aquifer, under the sea. The North Sea basin, where the CO₂ from the Humber will be stored, is the UK's largest and most well-understood saline aquifer for carbon storage.

Will the project require access to private properties and gardens?

The pipelines would primarily run through agricultural land and industrial areas where we connect to industrial emitters and will not be routed through private properties or gardens. Some surveys may be required in areas beyond the pipeline corridor for the purpose of gaining a greater understanding of local habitats and how they might be impacted by the project. There is no intention to carry out surveys in private gardens; we will always work with landowners to seek voluntary access for surveys.

I live outside the preferred route corridor / on an excluded option. Is it definitely not going to be constructed near me?

In autumn 2021, we consulted on a number of potential route corridor options, within which the pipelines could be constructed. The feedback received, together with environmental and technical work, has helped us to identify a preferred route corridor for this project. This is the most probable route corridor based on the current project scope and the location of industrial emitters. However, this is subject to change depending on the Government's final decision, which is running in parallel with our project development. An initial announcement by the Government is planned from May 2022, which will help to determine the route.

What impact will this have on the local areas and the community?

We remain committed to working with the local communities to minimise disruption and inconvenience from the project. We are developing a suite of controls to minimise negative impacts on local communities wherever practicable. As part of the later stages of project refinement and design the impacts of the project will be assessed as part of the Environmental Impact Assessment process and reported in the Preliminary Environmental Information Report (PEIR), which will be the subject of statutory consultation.

What happens if the Government's decision results in a different route corridor?

If the Government announcement requires changes to be made to our preferred route corridor, we will review the plans and keep you informed. This would be a collaborative process. In the meantime, we will carry out engagement and consultation to provide information and capture feedback based on the current preferred corridor option.

Contact us

Email us at: **HumberLowCarbon@nationalgrid.com**

Call us on: **0800 860 6255**

Write to us using: **FREEPOST HLCP NATIONAL GRID**

Website: **nationalgrid.com/humberpipelines**