

About The Project

HyNet North West
Hydrogen Pipeline

Delivering clean growth

The HyNet North West Hydrogen Pipeline will help unlock an energy revolution to decarbonise the North West.

About us

Cadent is the UK’s largest gas distribution network, managing a network of more than 80,000 miles of pipelines, most of which are underground.

We are developing 100 kilometres (around 62 miles) of new underground pipeline that will safely transport low carbon hydrogen produced by EET Hydrogen at the Stanlow Manufacturing Complex to various industrial offtakers.

The pipeline will all be underground, although we will need nine Hydrogen Above Ground Installations (HAGIs) and two Block Valve Installations (BVIs) at various locations along the route. In parallel with the construction of EET Hydrogen’s Hydrogen Production Plant, we anticipate starting construction on the first section of the hydrogen pipeline in 2027, subject to obtaining a Development Consent Order (DCO).

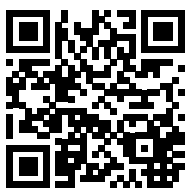
Why hydrogen

Hydrogen can be used for heat, power and even fuel for large vehicles like HGVs. When it’s burned, no carbon emissions are released. Hydrogen holds a lot of energy so it’s great for transporting large amounts of energy to where it’s needed.

To reach 100 per cent net zero and to support energy security we need hydrogen. In 2023 the Government set out its ambition to develop a core hydrogen network, which would support industry particularly in ‘hard to electrify’ sectors, and would provide greener, more flexible energy.

HyNet North West

The pipeline is part of the HyNet North West low carbon cluster programme. HyNet is an innovative energy project that will unlock a low carbon economy for the North West and North Wales, and put the region at the forefront of the UK’s drive to achieve net zero.



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Cadent
Your Gas Network

Our pipeline will bring positive long-term environmental benefits by helping industrial offtakers across the region decarbonise their activities. We look to identify, avoid, manage and minimise environmental impacts in our plans to construct and operate the pipeline, and have assessed any potential impacts in our Draft Environmental Statement.

Environmental surveys have been undertaken to help us to understand the area we are working in, and the specific considerations we need to take into account to manage and minimise the pipeline's impact on the environment.

These surveys include studies into:

- ecology
- ornithology
- aquatic
- soils and peat
- traffic
- noise
- landscape
- archaeology

Further information about our environmental assessments can be found in the Draft Environmental Statement at this event or on our website.

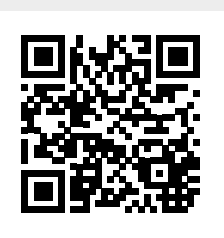
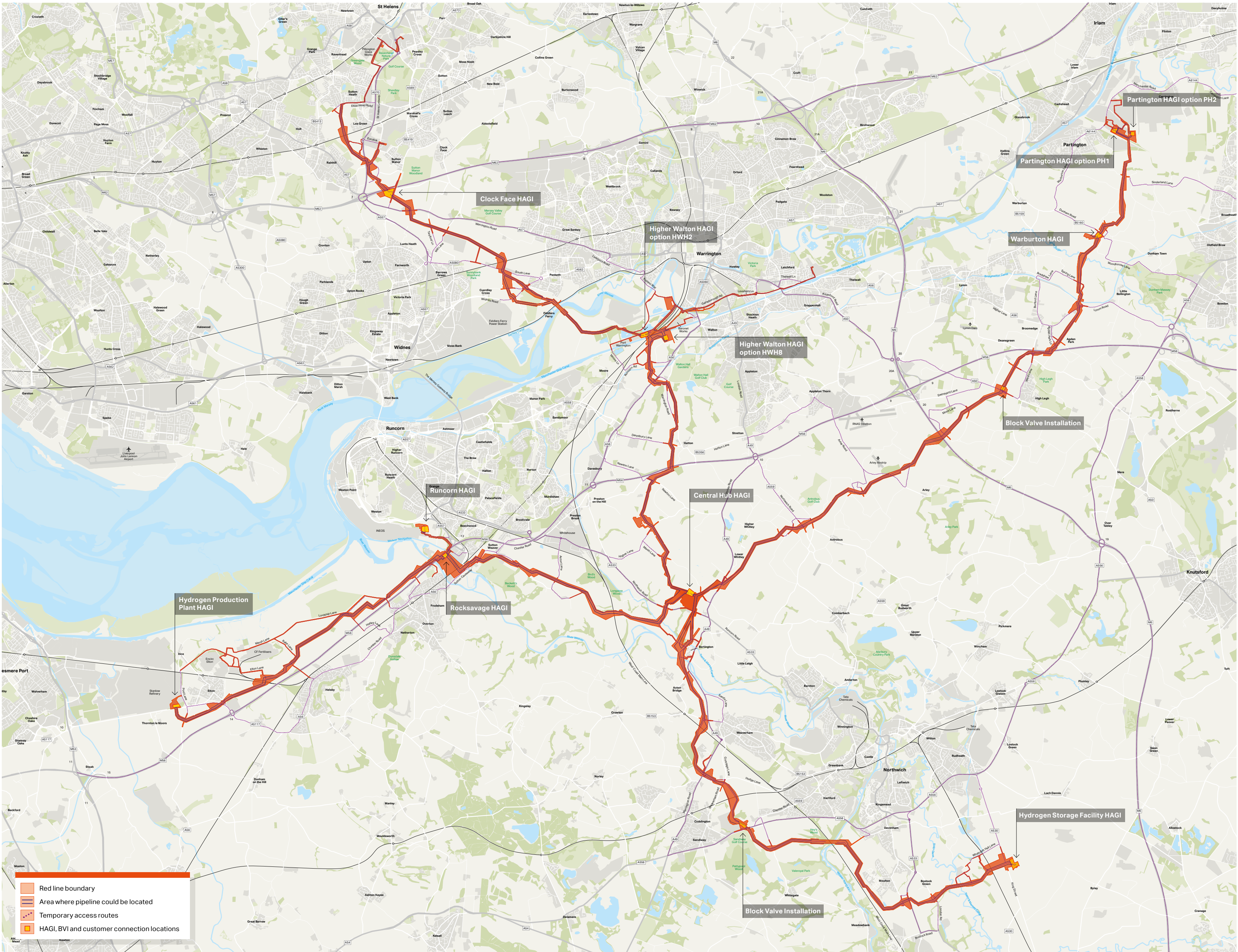
Biodiversity Net Gain

We are committed to achieving Biodiversity Net Gain as part of the Project. This will ensure our work results in more or better quality environments for plants and animals.



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Overview Map



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Above Ground Infrastructure

**HyNet North West
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Delivering clean growth

The majority of our pipeline will be underground. However, we will need nine Hydrogen Above Ground Installations (HAGIs) and two Block Valve Installations (BVIs) at certain locations along the pipeline.

HAGIs allow us to control the flow and pressure of hydrogen and enable inspection and routine maintenance of the pipeline. They will also act as the connection points to the Hydrogen Production Plant, Hydrogen Storage Facility and spurs to our offtakers.

What HAGIs typically look like

HAGIs usually include a range of above ground equipment and structures. These structures are expected to be up to three metres in height, subject to final design. The sites will be protected by security fencing with a gate allowing access.

Block Valve Installations

Two BVIs are required as part of the Project; The Sworton Heath BVI would be located on the East Corridor, and the Hartford BVI would be located on the South Corridor.

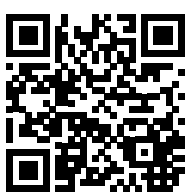
BVIs act as a cut-off point to isolate a section of pipeline for maintenance, repair or in case of an emergency. These are smaller than HAGI sites, typically measuring around half a hectare (half a football pitch).

Offtaker connections

Offtakers will also need to build some above ground infrastructure to connect to the hydrogen pipeline. The connection points would be smaller than BVIs and HAGIs and are required to transport the hydrogen to where it's needed. These connections are generally located within the offtaker's land and existing facilities.



The equipment in a HAGI would look similar to that used for natural gas, as above.



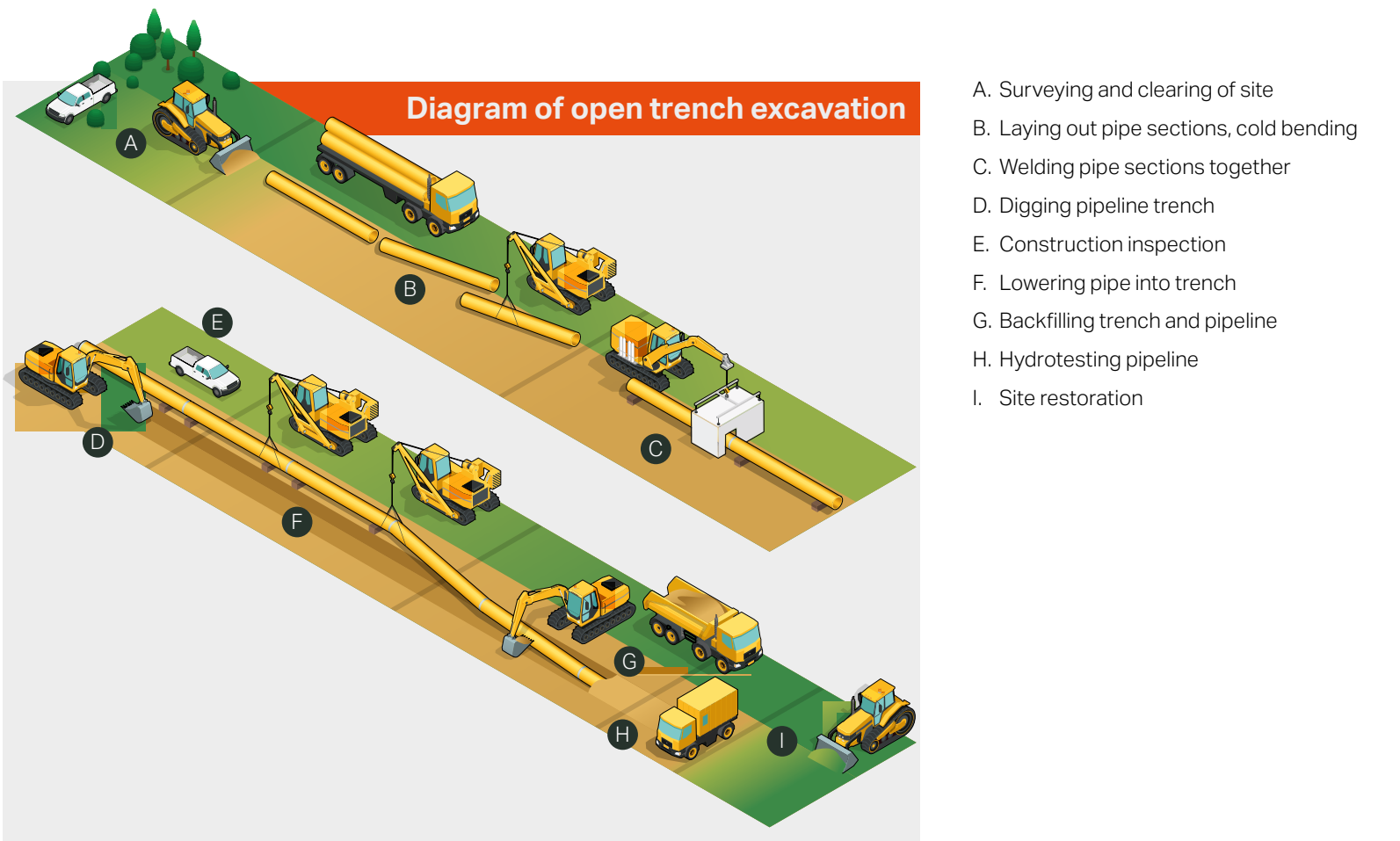
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Cadent
Your Gas Network

Constructing The Project

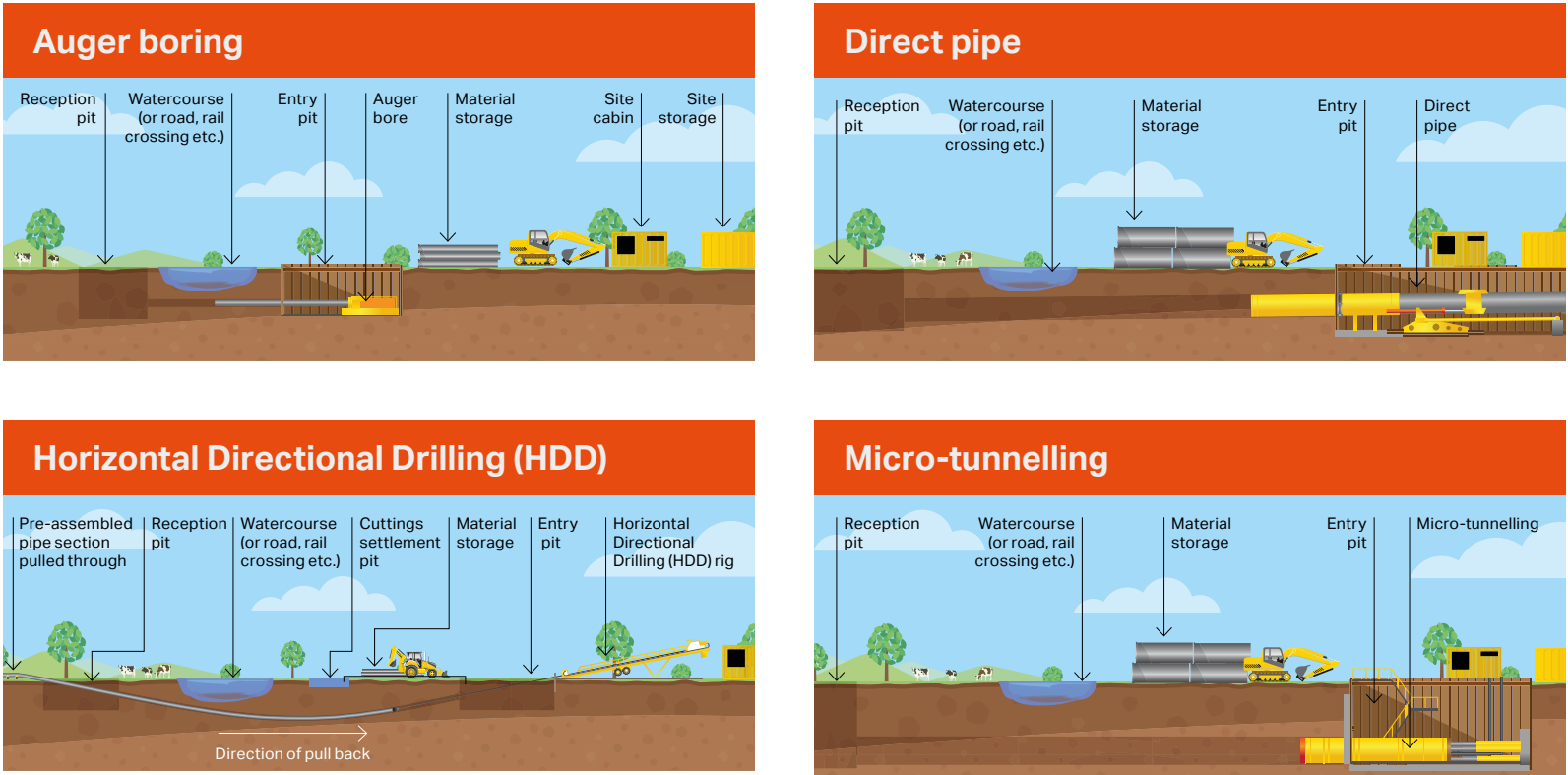
Cadent is an experienced and trusted operator of gas pipelines. We will make use of our construction experience and maintenance knowledge to help us develop the project effectively.

The pipeline will be constructed predominantly using open trench (or ‘open cut’) techniques. Where it is not possible or practical to open trench, trenchless crossing techniques will be used.

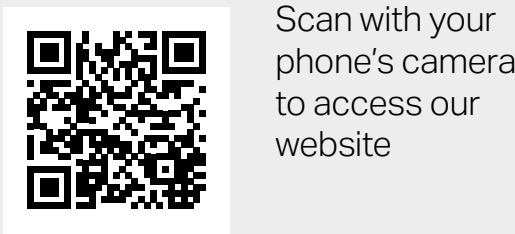


The different construction techniques are illustrated below. Please ask a member of the team if you’d like more information on any of them.

We'll need to use trenchless methods at various points along the pipeline to cross motorways and major roads such as the M56, M62, M6, and watercourses like the River Weaver, Weaver Navigation, River Mersey and Trent & Mersey Canal. Trenchless techniques can help to mitigate potential impacts on the environment, road usage and local communities.



These graphics are for indicative purposes only and not to scale.



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Next Steps

Once this consultation closes we will carefully consider all the feedback we have received alongside further technical, engineering and environmental work.

This is all with the aim of completing our final design for the HyNet North West Hydrogen Pipeline – the basis of our DCO application.

The final design will consist of our redline boundary, HAGIs, BVIs and areas to be used for construction and access. We will aim to remove any optionality.

Current project timeline



Please note that this is an indicative timeline and could be subject to change.



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Feedback Area

Here’s how you can submit your feedback today

Feedback helps us shape our plans and create the best possible project. We’d like your views so we can further refine our plans, before we submit our application for a Development Consent Order.

Fill in a hard copy form.



Please hand this to a member of our team or put it in our feedback box once completed.

Use a laptop or tablet



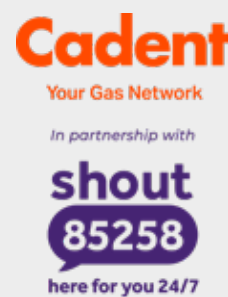
Use one of the laptops or tablets here to access our online feedback form.

We can help you provide feedback



- Speak to a member of our team today to ask any questions about this project.
- Read our suite of materials. These are all available at this event and on our project website.
- Study our supporting maps that show where the pipeline and other elements of our project will be.

For confidential support, contact Shout



If you are anxious or stressed about our pipeline project, our partnership with Shout offers 24/7, free, confidential text support from a trained advisor.

Know someone who could benefit from this service? Text **PIPELINE** to **85258**.

For more information about our partnership and the help available to you, visit www.giveusashout.org/.

Please note that Shout do not hold any project information but are able to provide wider wellbeing support.

If you’d rather submit your feedback at home, you can do so by,

Using our project website:



www.hynethydrogenpipeline.co.uk

Use a laptop or tablet



Submit our online feedback form.

Sending an email to:



info@hynethydrogenpipeline.co.uk

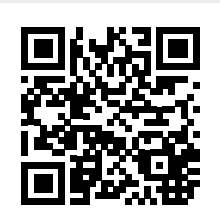
We welcome all feedback and any questions you might have about the project via email.

Sending written feedback to our freepost address:

Our Freepost Address is: FREEPOST HYPNET NWHP

You can write us a letter or send a hard copy feedback form by post, which is available to take away at this event. This is a Freepost address, which means you don’t need to use a postage stamp. Simply write the address above on an envelope.

Please ensure you submit your feedback by 19th November 2024.



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