

CONSULTATION REPORT

Appendix G Section 47 Materials

HyNet Carbon Dioxide Pipeline DCO

Planning Act 2008

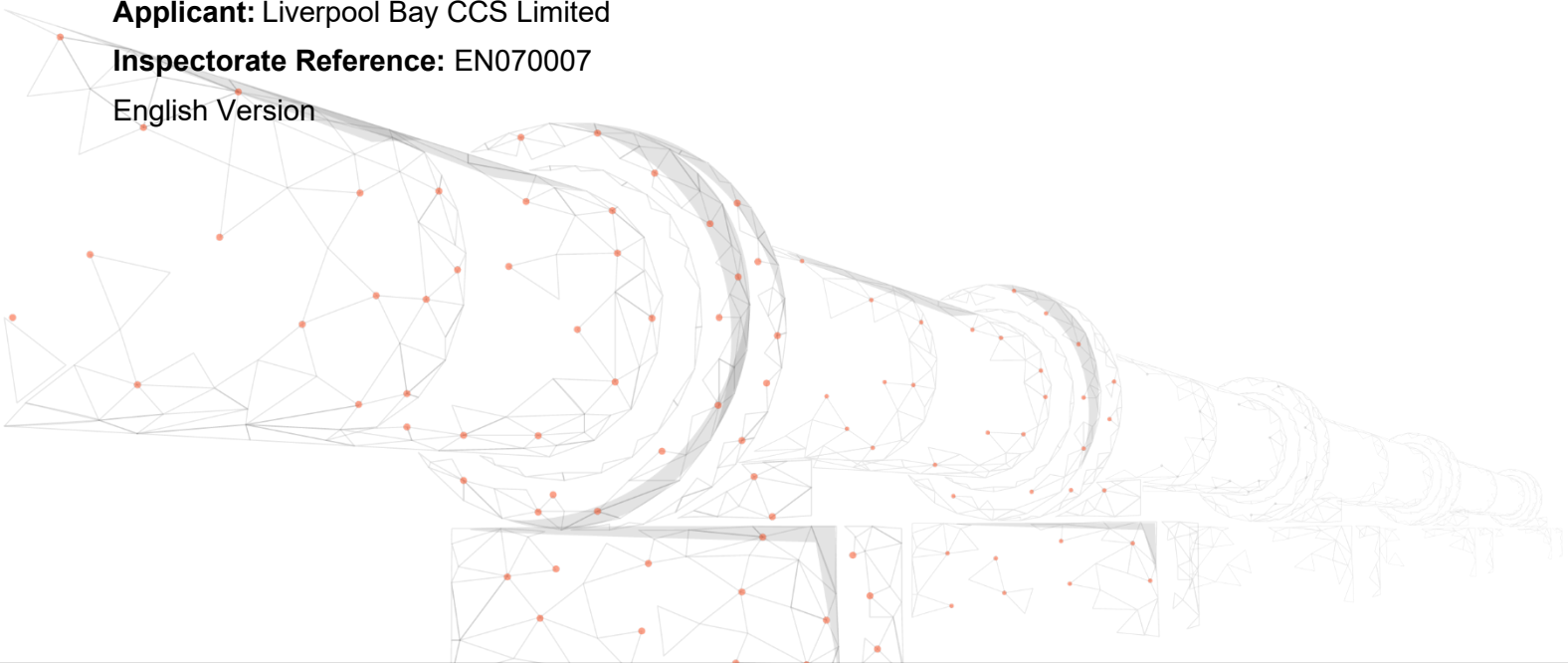
The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulations 5(2)(q)

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Document Owner	WSP			

Appendix G

Section 47

Materials

HyNet North West

Document Number: D.5.1.7



G1

Pre-consultation slides (LAs)

**HyNet
North West**



AGENDA & MEETING NOTES

PROJECT NUMBER	70070865	MEETING DATE	26 January 2022
PROJECT NAME	HyNet NW Co2 Pipeline	VENUE	Teams
CLIENT	Progressive Energy Limited	RECORDED BY	NC
MEETING SUBJECT	Joint meeting with Cheshire West and Chester Council and Flintshire County Council		

PRESENT	Ben Greenwood, Hannah Parish, Trevor Croft, Cerys Percival, Natalie Corless, Mike Greslow, Harry Dent, Andrew Russell, Callam Pearce
APOLOGIES	Gary Nancarrow, Rob Charnley, Lara Peter
DISTRIBUTION	As above plus: Click to type
CONFIDENTIALITY	Confidential

ITEM	SUBJECT	ACTION	DUE
	<i>DCO Application (CWACC and FCC)</i>		
1	DCO Actions from previous meeting		
2	Statutory Consultation		
3	Planning & environment update		
4	Programme		
5	Summary of TCPA items to follow		
	<i>TCPA Application (FCC)</i>		
1	TCPA Actions from previous meeting		
2	Planning & environment update		
3	AOB		

NEXT MEETING

Tuesday 1 March 2022 (2 – 3pm)



PRESENTATION TO CHESHIRE WEST AND CHESTER &
FLINTSHIRE COUNTY COUNCIL

HyNet North West

CO₂ PIPELINE APPLICATION



26 January 2022

Agenda

DCO Application

1. DCO Actions from previous meeting
2. Statutory Consultation
3. Planning & environment update
4. Programme
5. Summary of TCPA issues to follow



The CO₂ saving delivered by HyNet North West in 2030 is equivalent to emissions from heating over 5 million households with natural gas boilers for a year.

1. DCO Actions from previous meeting

DCO Actions

Item No	Subject	Action
1.	PPA for FCC	<ul style="list-style-type: none">• GN/HP to send Cabinet Report and signed PPA to TC/NC for signoff.
2.	Statement of Common Ground (SoCG)	<ul style="list-style-type: none">• NC to circulate updated SOCG's for review once drafted.
3.	Statement of Community Consultation (SoCC) - hard-to reach-youth groups	<ul style="list-style-type: none">• CWACC to advise of any groups to be included within the SoCC
4.	Key programme milestones	<ul style="list-style-type: none">• NC to share dates with councils
5.	North Wales Councils Regional Emergency Planning Service	<ul style="list-style-type: none">• HP/CP to share contact details so SOCC can be updated
6.	EIA cumulative impact assessment memo	<ul style="list-style-type: none">• NC to share GIS shapefile on wider boundaries (2km & 15km)
7.	FCC briefing note to Councillors on LIQ process & consultation	<ul style="list-style-type: none">• HP to share note for review before circulating

DCO Actions

Item No	Subject	Action
8.	Ewloe housing allocation – FCC asked for confirmation we are avoiding	<ul style="list-style-type: none">• TC/NC to pick up in further discussions
9.	Impact on mineral resource extraction if works affect large area	<ul style="list-style-type: none">• HP to circulate a note explaining potential impacts
10.	Future environmental meetings ahead of consultation	<ul style="list-style-type: none">• NC to liaise with Env team and advise councils of likely meetings
11.	LIQ and cover letter	<ul style="list-style-type: none">• NC to send to copies to BG/RC for information
12.	2022 Joint LPA meetings	<ul style="list-style-type: none">• NC to circulate calendar invites


2. Statutory Consultation

Statutory Consultation

- **Final SoCC** to be circulated to local authorities this week
- Section 42 and 47 consultation will be **9 February to 22 March**
- **S48 notice** – will be published in:
 - The Chester Chronicle (**27th Jan, 3rd Feb**),
 - The London Gazette, The Guardian, Chester Standard, The Daily Post (+translation) (**31st Jan**)
 - The Flintshire Leader (+translation) (**31st Jan, 7th Feb**)
- **Consultation boundary for the DCO** covers extent of new & existing pipeline but *excludes Point of Ayr terminal & foreshore works* as we are confident that not required as part of compulsory acquisition
- **7 face-to-face events** planned in Feb/March– we are mindful that Covid-19 rules can differ between England and Wales and will put systems in place to ensure we comply with all rules in place at the time of the events.

Sample Consultation Boards

HyNet North West




About HyNet North West


HyNet North West is a ground-breaking clean energy project that will unlock a low carbon economy for North West England and North Wales, and put the region at the forefront of the UK's drive to net zero.


HyNet will produce clean hydrogen to replace the fossil fuels we use today for industry, transport and homes. HyNet will also capture and store carbon dioxide (CO₂) emissions produced by energy intensive industries.


We are in a climate emergency and we need to act quickly to reduce our emissions. HyNet is an ambitious and viable answer to reducing CO₂ emissions across North West England and the North Wales region which can be rolled out to reduce CO₂ emissions this decade. HyNet comprises several different elements, including upgrades to existing facilities as well as the development of new infrastructure.

HyNet is one of only two UK projects of its kind to be selected by the government to begin decarbonising from 2025, bringing economic and environmental benefits to the North West, North Wales and across the UK.

 www.hynet.co.uk

 0203 116 5919

 info@hynet.co.uk

 FREEPOST HYNETH NORTH WEST

HyNet North West




The HyNet projects


The element of HyNet that this consultation relates to is an underground pipeline that will safely transport CO₂ from local industry to be permanently stored offshore in depleted gas reservoirs under Liverpool Bay.


We want your views on our proposals to install a new CO₂ pipeline between Ince, near Stanlow and Flint; and to repurpose an existing 24" natural gas pipeline to transport CO₂ between Flint and the existing Point of Ayr Terminal.


The CO₂ pipeline will include a number of above ground installations (AGIs) and block valve stations (BVS) along the route.

A separate consultation is being held on proposals for a hydrogen pipeline.


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HyNet North West





The preferred CO₂ pipeline route


The preferred route represents our current estimate, as the route will be refined up until we submit our application for development consent.

The newbuild CO₂ pipelines will be buried underground along their entire length. The minimum depth from the top of the pipe to the ground surface will be in accordance with relevant standards but is typically 12m in open cut sections and deeper for trenchless crossings to avoid existing services and physical obstructions and to take account of the higher ground loading.

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HyNet North West

Section 5 – A550 – B5126

Section 5 is located entirely within the Flintshire Local Authority boundary, and spans three Community boundaries (Hawarden, Northop Hall, and Northop). It includes the Aston Hill BVS and Northop Hall BVS.

From the A550 Gladstone Way, the route heads west before crossing the Wrexham to Bidston (Borderlands) railway line and A494 Aston Expressway. At this point, the section is wider to account for several route options which are being considered:

- Ewloe North:** The route would head north crossing Old Aston Hall and Shotton Lane before heading in a south-westerly direction towards the B5125 Holywell Road.
- Ewloe South:** The route would head west underneath Church Lane before heading south of Aston Hall Farm. The route would cross Shotton Lane before heading in a south-westerly direction towards the B5125 Holywell Road.
- Ewloe Central:** The route would head west underneath Church Lane before heading north of Aston Hall Farm. The route would cross Shotton Lane before heading in a south-westerly direction towards the B5125 Holywell Road.

These options are being considered to take account of environmental, planning, and technical constraints in the area.

All three route options re-convene just south of the B5125 Holywell Road before heading in a south-westerly direction towards the A55 North Wales Expressway. The route then follows the path of the A55 North Wales Expressway heading in a north-westerly direction towards Northop Hall.

Approximately 600m south-west of Northop Hall, the section widens again to account for two route options which are being considered:

- Alltarn Brook North:** The route would continue in a northerly direction before heading westerly and crossing the Robin Hood Lane followed by the Alltarn Brook approximately 200m east of The Chequers Hotel.
- Alltarn Brook South:** The route would continue along the same trajectory crossing Robin Hood Lane followed by the Alltarn Brook approximately 150m south-west of The Chequers Hotel.



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3. DCO Planning & Environmental update

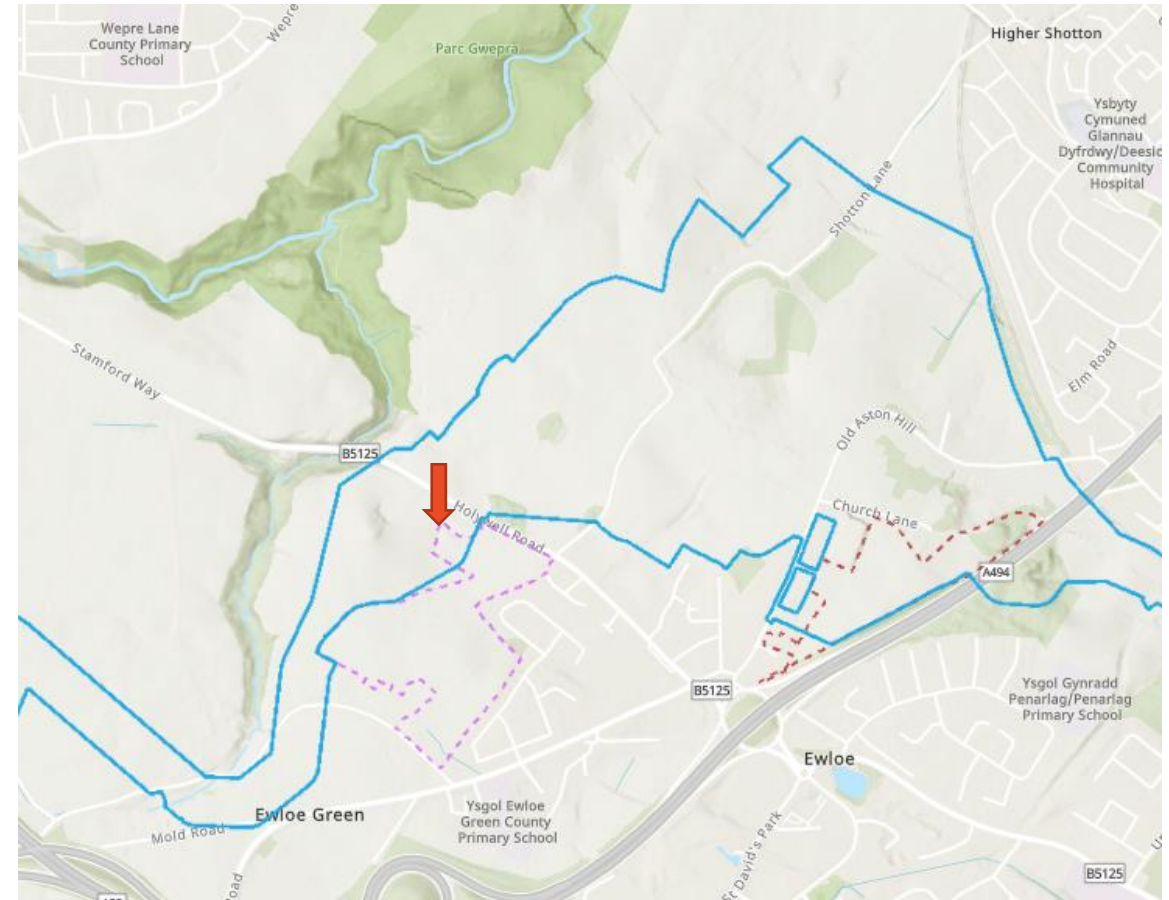
Planning update

- Statutory consultation boundary to be sent out as GIS shapefile and PDF plan this week
- Aiming to submit some draft documents to PINS for early review ahead of final submission
- Emerging Flintshire Local Plan — any update on likely timescales for adoption?



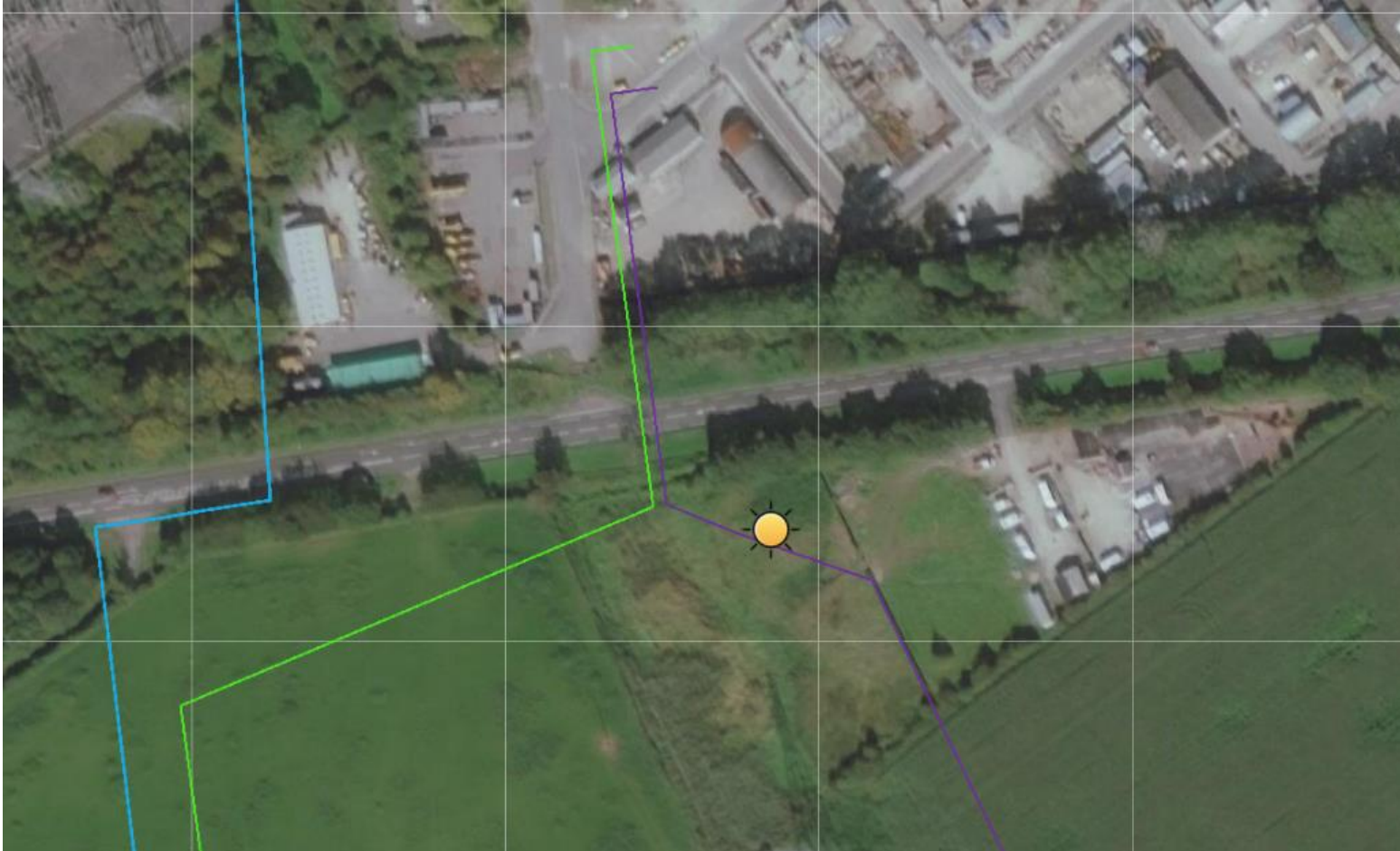
Planning update – FCC Housing allocation HN1.7 (Ewloe)

- **Consultation boundary** currently overlaps with a corner of the housing allocation. This corner of land relates entirely to construction, access and laydown works – it is not land associated with the pipeline.
- **Aim is for the pipeline boundary to avoid the allocation**– currently worked up alternative routes around it & confirming utilities information.
- **Engagement with housebuilders** - Property Team are meeting on-site this week with Lane Ends developments. Another developer has also approached us about a separate proposal in this area.



Planning update

- **Traveller camp south of Stanlow Refinery & A5117 School Lane** – are CWACC aware of this site & expansion to the west?
- Are there any planning applications to extend this site?



Environmental update

- **Preliminary Environmental Information Report** (PEIR) being prepared ready for Statutory Consultation in Feb 2022
- **Cumulative impact assessment** – ‘Long List’ of planning applications/allocations captured within PEIR. Long List & Short List of projects to be agreed with LPA’s
- **GI meetings on 25 & 26 January** – to discuss geotechnical approach with both LPAs
- **Upcoming Ecology meetings:**
 - Natural England/ CWACC ecologist – GCN District Level Licensing (today)
 - Meeting with LPA’s on ecology assessment (Feb)
 - **Stakeholder engagement** – intention to have further collaborative workshops & meetings in spring 2022, as well as stat cons feedback



Environmental update - Land

Geotechnical Investigation campaign paused in winter 2021. Aiming to remobilise in February.

Current GI Completion:

- Boreholes – 60%
- Trial Pits on new-build – 95% (11 trial pits on existing to be completed)
- Topographic Survey - 85%
- Cone Penetration Test (CPT) to determine subsurface conditions in upper 100ft of subsurface - 70%



4. Programme

DCO programme

- **Statutory consultation – Q1 2022**
- **Submit application – Q3 2022**
- **DCO decision – Q4 2023**

- Consultation closes 22 March
- Targeting early May to freeze scheme design
- DCO submission – aiming for 1 August
- From next month will provide detailed programme with more granular detail – 1 – 2 month look ahead

5. Summary of TCPA issues to follow

- TCPA Actions from previous meeting
- Planning & environment update
- AOB. - *Cadent hydrogen pipeline – non-statutory consultation starts next week*

1. TCPA Actions from previous meeting

TCPA Actions

Item No	Subject	Action
1.	FCC validation requirements	AR to set up meeting with FCC to review content of application & drawing pack.
2.	TCPA EIA strategy note	AR to circulate note on EIA position relating to scoping opinion feedback from NRW.

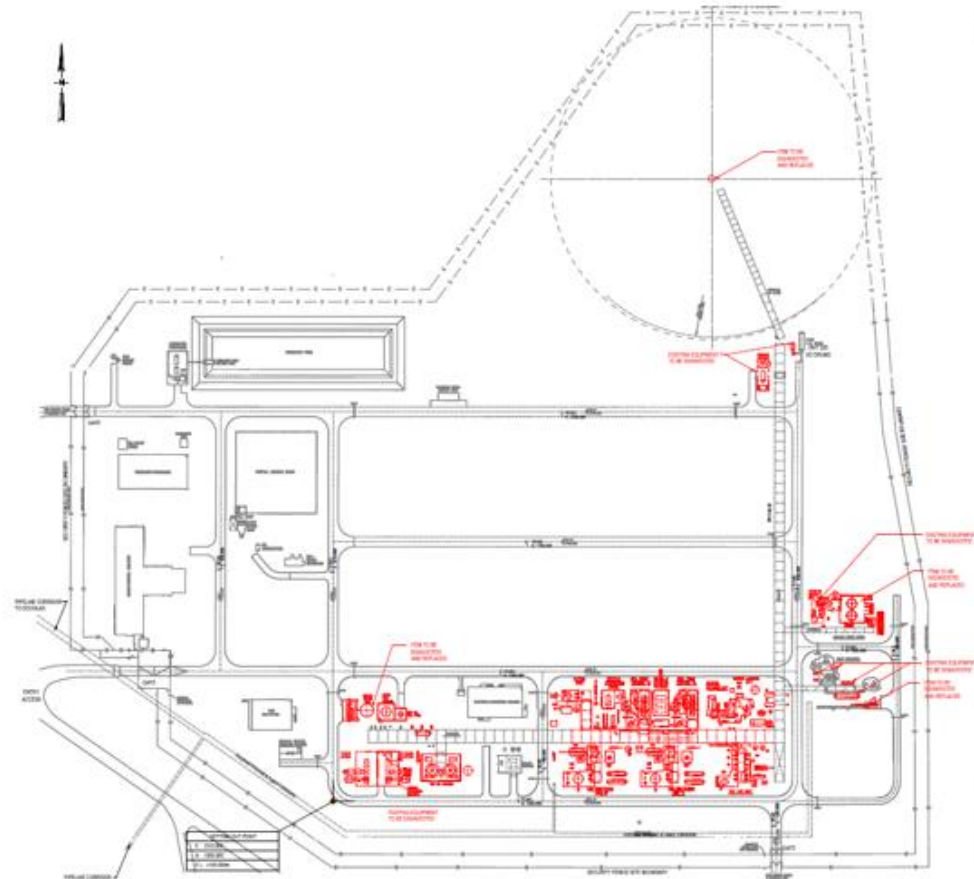
2. TCPA Planning & environment update

Planning and environment update

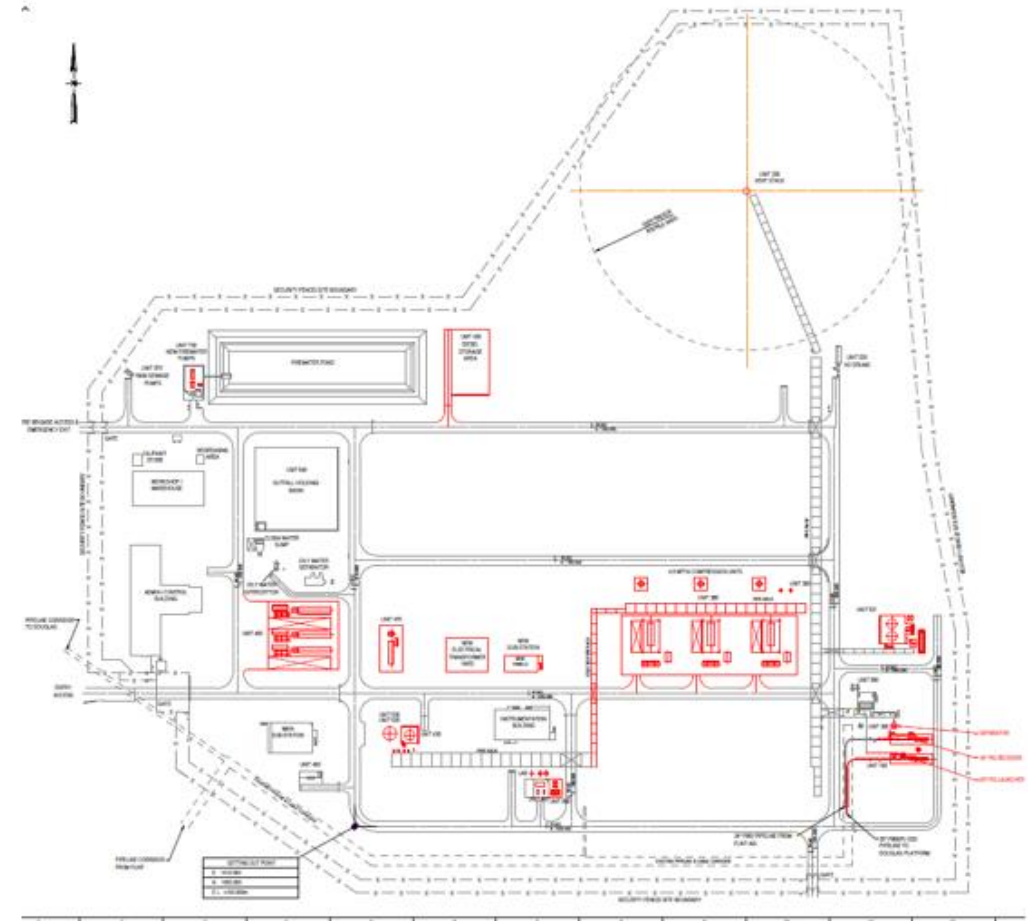
- Note on Consenting strategy sent to Welsh Government to get their agreement in principle – ie BVS in DCO only.
- Note also addresses NRW queries on EIA scope
- Aiming to undertake detailed application for TCPA
- Pre-application consultation on the TCPA – late spring 2022
- TCPA application submitted in 1 August 2022 (same time as DCO application)



Plans

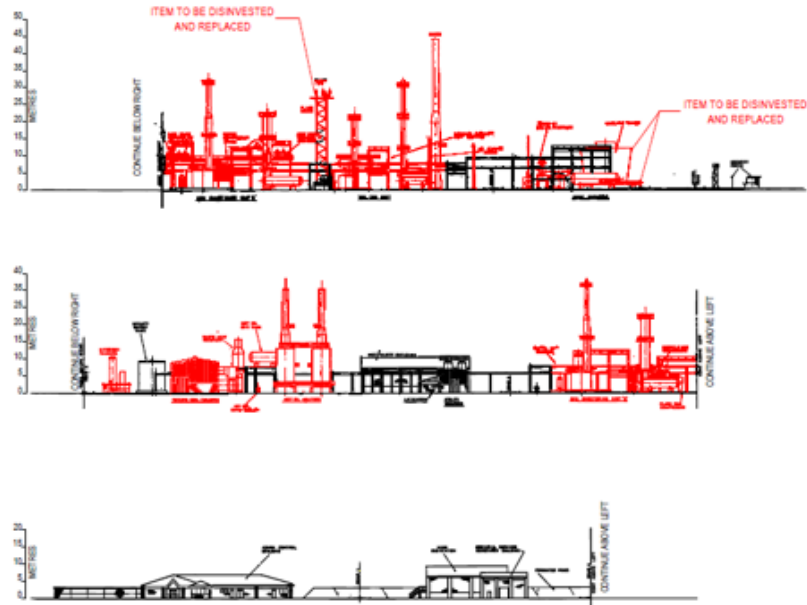


Existing layout – plant to be removed

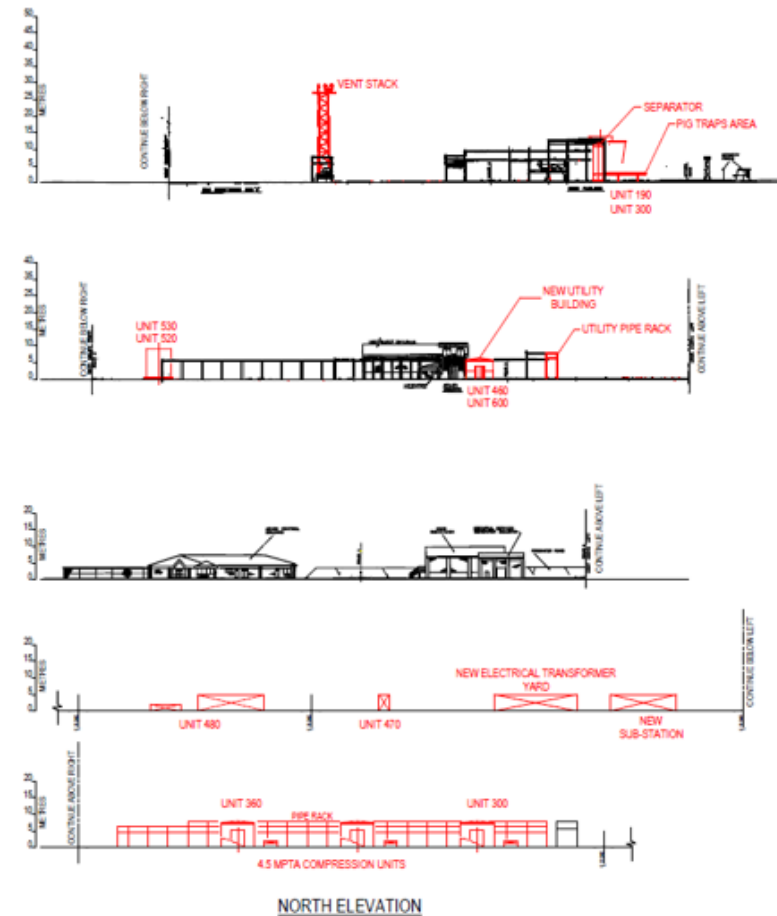


Proposed layout

Plans



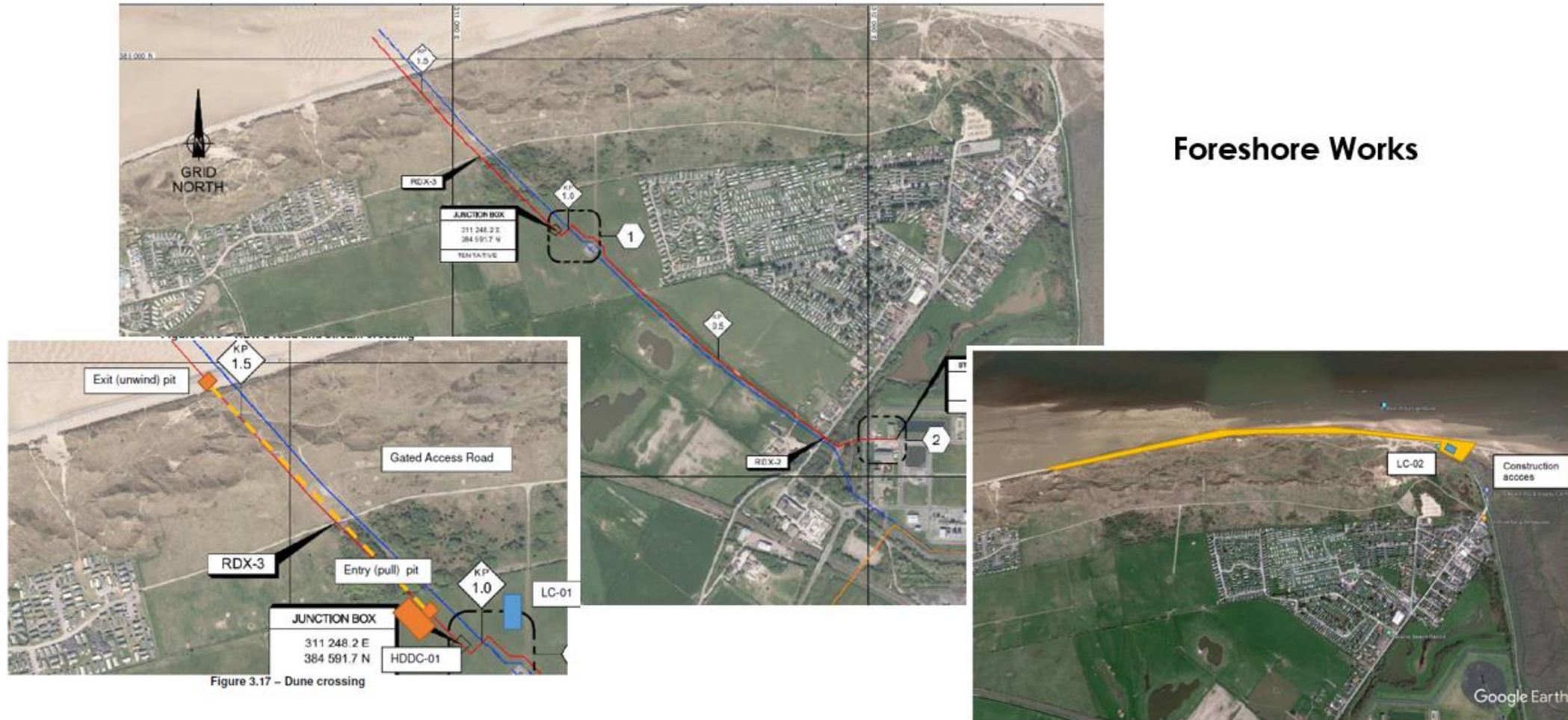
Existing elevation – plant to be removed



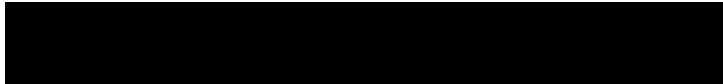
Proposed elevation

Plans

Foreshore Works



3. Any other business



AGENDA & MEETING NOTES

PROJECT NUMBER	70070865	MEETING DATE	26 January 2022
PROJECT NAME	HyNet NW Co2 Pipeline	VENUE	Teams
CLIENT	Progressive Energy Limited	RECORDED BY	NC
MEETING SUBJECT	Joint meeting with Cheshire West and Chester Council and Flintshire County Council		

PRESENT	Ben Greenwood (BG), Hannah Parish (HP), Trevor Croft (TC), Cerys Percival (CP), Natalie Corless (NC), Mike Greslow (MG), Harry Dent (HD), Andrew Russell (AR), Callam Pearce (CP), Akshat Vipin (AV)
APOLOGIES	Gary Nancarrow (GN), Rob Charnley (RC), Lara Peter (LP).
DISTRIBUTION	As above plus: Iain Roberts (IR), Sarah Falconer (SF), Dan Patterson (DP), Declan Franklin (DF), Georgie Kleinschmidt (GK), Judith Onuh (JO).
CONFIDENTIALITY	Confidential

ITEM	SUBJECT	ACTION	DUE
	<i>DCO Application (CWACC and FCC)</i>		
1	DCO Actions from previous meeting <ul style="list-style-type: none"> - The FCC PPA has been sent to Cabinet and HP believes it has been agreed. The document just needs final official sign off. HP to chase the progress of this. - The CWACC Statement of Common Ground (SoCG) is being updated and will be circulated once drafted. - The final Statement of Community Consultation (SOCC) will be sent to the LPAs this week. - Key programme milestones have been shared with the LPAs. - Contact details received for North Wales Councils Regional Emergency Planning Service - NC confirmed that the team had carried out planning searches for the EIA cumulative impact assessment. Therefore, as the work has been completed, no longer a need for NC to share the GIS shapefile for the wider 2km and 15km boundaries with HP. NC updated FCC later in the meeting on the GIS shapefile for the Order Limits. - FCC briefing note on the LIQ process and consultation was sent to Councillors (this was shared for review with the DCO project team before sending). 	HP NC NC	

	<ul style="list-style-type: none"> - NC/MG updated FCC later in the meeting on the Ewloe housing allocation. - HP circulated a note explaining the potential impact on mineral resource extraction if works affect large area. - NC explained that meetings had taken place with the LPA Environment teams and will advise of anymore which would be helpful for them to attend. - The LIQ and cover letter were sent to BG/RC for information. - All 2022 Joint LPA Meetings are now in the calendar. 		
2	Statutory Consultation <ul style="list-style-type: none"> - The SOCC will be circulated to the LPAs this week. Update – the issuing of this has been delayed by some final amendments to the Order Limits. - S42 and s47 consultations will run from 9 February to 22 March 2022. - S48 notice will be published in: <ul style="list-style-type: none"> o The Chester Chronicle (27th Jan, 3rd Feb), o The London Gazette, The Guardian, Chester Standard, The Daily Post (+translation) (31st Jan) o The Flintshire Leader (+translation) (31st Jan, 7th Feb) - Consultation boundary for the DCO covers extent of new & existing pipeline but excludes Point of Ayr terminal & foreshore works as we are confident that not required as part of compulsory acquisition. - Seven face-to-face events planned in Feb/March – WSP are mindful that Covid-19 rules can differ between England and Wales and will put systems in place to ensure they comply with all rules in place at the time of the events. - HP asked what the GIS shapefile being sent to FCC would include. NC explained that it will include the whole order limits which includes land needed for construction, operation, temporary ownership and all compulsory acquisition. - Examples of the consultation boards which will be shown at the in-person events were shown on the screen. 		
3	Planning & environment update <ul style="list-style-type: none"> - Statutory consultation boundary to be sent out as GIS shapefile and PDF plan (and aim for before HP meeting on 2nd February 2022). 	NC	

	<ul style="list-style-type: none"> - Aiming to submit some draft documents to PINS for early review ahead of final submission. NC suggested that LPAs could get sight of these at the same time if that would be useful. - NC asked if there was an update for timescales for the adoption of the Emerging Flintshire Local Plan. HP said that she would follow this up and provide an update. <p>FCC Housing Allocation HN1.7 (Ewloe) – Update</p> <ul style="list-style-type: none"> - NC explained that the consultation boundary currently overlaps with a corner of the housing allocation. This corner of land relates entirely to construction, access and laydown works – it is not land associated with the actual pipeline build location - Aim is for the pipeline boundary to avoid the allocation– team have worked up alternative routes around it & confirming utilities information. - Engagement with housebuilders - Property Team are meeting on-site this week with Lane End developments. Another developer has also approached about a separate proposal in this area. - HP asked if the planning team can create a note within the consultation documents to explain the situation with the housing allocation i.e. final pipeline boundary more than likely to avoid the allocation. Member of public has already raised as issue so likely they will raise again during consultation. - MG explained that there will be FAQs, and this could be incorporated in this. - NC to send the briefing note prepared for the LDP inspector to TC/CP so that a response can be agreed on the FCC allocation. - MG explained further that the design will be updated throughout the consultation phase but there will likely be a fixed design for the area by the end of consultation. - MG also explained that an “indicative” pipeline route will be included in the consultation documents and this will provide greater clarity for the public. <p>Traveller Camp South of Stanlow Refinery & A5117 School Lane</p> <ul style="list-style-type: none"> - NC explained that staff on site have noticed the traveller site south of Stanlow Refinery appears to have expanded further west. NC asked BG if CWACC were aware of this or are there any planning applications to extend this area? BG said that he 	HP	
		NC/ CP/TP	

	<p>will look at any applications surrounding the site and feed this back. NC to send Ben a plan and details of the area.</p> <ul style="list-style-type: none"> - TC updated that we have been advised to liaise with Dawn Taylor who is a Cheshire Partnership Gypsy Traveller Coordinator based at CWACC about the traveller site. WSP land team will get in touch. <p>Environmental</p> <ul style="list-style-type: none"> - Preliminary Environmental Information Report (PEIR) being prepared ready for Statutory Consultation in Feb 2022. - Cumulative impact assessment – ‘Long List’ of planning applications/allocations is being captured within the PEIR. The Long List & Short List of projects are to be agreed with LPA’s. - GI meetings held on 25 & 26 January to discuss geotechnical approach with both LPAs. - Upcoming Ecology meetings: <ul style="list-style-type: none"> o Natural England/ CWACC ecologist – GCN District Level Licensing (today); o Meeting with LPAs on ecology assessment (Feb). - Stakeholder engagement – intention to have further collaborative workshops & meetings in spring 2022, as well as statutory consultation feedback. <p>Land (Geotechnical Investigation)</p> <ul style="list-style-type: none"> - Geotechnical Investigation campaign paused in winter 2021. Aiming to remobilise in February. - Current GI Completion: <ul style="list-style-type: none"> o Boreholes – 60%; o Trial Pits on new-build – 95% (11 trial pits on existing locations to be completed); o Topographic Survey - 85%; o Cone Penetration Test (CPT) to determine subsurface conditions in upper 100ft of subsurface - 70%. 	<p>NC / BG</p> <p>NC</p>	
4	<p>Programme</p> <ul style="list-style-type: none"> - MG explained the current programme: <ul style="list-style-type: none"> o Statutory consultation – Q1 2022 o Submit DCO application – Q3 2022 o DCO decision – Q4 2023 - The Statutory Consultation closes 22 March 2022. 		

	<ul style="list-style-type: none"> - Targeting early May to freeze scheme design. - DCO submission – aiming for 1 August. - From next month WSP will provide detailed programme with more granular detail – 1 – 2 months look ahead. 		
5	Summary of TCPA items to follow <ul style="list-style-type: none"> - It was explained that the Cadent Hydrogen Pipeline non-statutory consultation had started this week on 26/01/2022. 		
	TCPA Application (FCC)		
1	TCPA Actions from previous meeting <ul style="list-style-type: none"> - AR is in a position to hold a meeting with FCC to review the content of application & drawing pack. AR to send this invite. - The TCPA EIA strategy note to Welsh Government has been circulated to FCC. 	AR	
2	Planning & environment update <ul style="list-style-type: none"> - AR explained that the position is now that the Block Valve Stations (BVS) will be included in the DCO and not the TCPA application. Legal advice on the consenting strategy has confirmed this approach and the consenting strategy has been sent to Welsh Government. - Because the EIA regimes for the DCO and TCPA processes have different requirements, the EIAs are being separated. Welsh Government requested to provide a view on this as well. - Once there is a response from Welsh Government, this will help to produce a common agreed approach with NRW, Welsh Government and FCC. - It is the aim to submit a detailed TCPA application for the Point of Ayr terminal works. - It is the aim to have pre-app consultation on the TCPA application in late spring 2022 and TCPA application submitted in Q3 2022, at the same time as the DCO application. Plans <ul style="list-style-type: none"> - AR described key plans to HP which included: <ul style="list-style-type: none"> o Existing and Proposed Layouts; o Existing and Proposed Elevations; and o Aerial plans of the Foreshore Works. - AR explained that he will discuss this further with HP in another meeting. The red line boundary will also be part of this discussion. 		

MEETING NOTES

	<ul style="list-style-type: none">- It was clarified that the fibre optic cable will require TCPA permission, and the application will also look to remove the time limit on the pipeline.		
3	AOB		

NEXT MEETING

Tuesday 1 March 2022 (2 – 3pm)

G2

Section 47

Email/Letter

HyNet North West



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United Kingdom
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7 February 2022

Dear Sir/Madam,

PUBLIC CONSULTATION FOR HYNET NORTH WEST CARBON DIOXIDE PIPELINE

I write in relation to Liverpool Bay CCS Limited's proposals to develop, install and operate a new carbon dioxide ('CO₂') pipeline between Ince near Stanlow, and Flint, and to repurpose an existing 24-inch natural gas pipeline between Flint and Point of Ayr Terminal for transportation of CO₂.

As the new carbon dioxide pipeline is classified as a Nationally Significant Infrastructure Project ('**NSIP**') under the Planning Act 2008 ('**PA2008**'), its construction and operation require permission known as a Development Consent Order ('**DCO**'). As part of this process, Liverpool Bay CCS Limited will be holding a statutory public consultation to inform its proposals before finalising its DCO application.

The public consultation will be held over a six-week period from Wednesday 9 February 2022 to Tuesday 22 March 2022. We have included within this letter more information about the Proposed Development, where you can find more information, and how you can provide your feedback. Please note that this public consultation will close at 11.59pm on 22 March 2022 and we therefore invite responses on or before this date.

1. The proposed development

The development for which the DCO will be sought is:

- a) Construction and use of Ince Above Ground Installation ('**AGI**') to Stanlow AGI pipeline (up to 20").
- b) Construction and use of Stanlow AGI to Flint AGI pipeline (36").
- c) Construction and use of Flint AGI to Flint Connection pipeline (24").
- d) The repurposing and use for CO₂ of the Flint Connection to Point of Ayr Terminal pipeline (24").
- e) Construction and use of Ince AGI.
- f) Construction and use of Flint AGI.
- g) Construction and use of Stanlow AGI.
- h) Construction and use of Northop Hall AGI.
- i) Construction and use of Block Valve Stations ('**BVSs**') located along the existing natural gas Flint Connection to Point of Ayr pipeline and Stanlow AGI to Flint AGI pipeline.

Items a-i together form the '**Pipeline**'.

- j) Other infrastructure such as Cathodic Protection (CP) transformer rectifier cabinets.

- k) Ancillary works integral to the construction of the Pipeline including construction compounds and access tracks.

All of items a-k together form the **'Proposed Development'**.

2. The DCO process

Liverpool Bay CCS Limited intends to submit the DCO application to the Secretary of State for Business, Energy and Industry Strategy (**'Secretary of State'**) in Summer 2022. The DCO application will include supporting documents including a Consultation Report, which will record the results of this public consultation and demonstrate how Liverpool Bay CCS Limited has had regard to the public consultation responses in preparing its DCO application. There will be an opportunity for any person who wishes to comment on the DCO application, once it has been submitted by Liverpool Bay CCS Limited and accepted, to do so directly to the Planning Inspectorate. Further notices advertising the period allowed for making such comments will be issued at that time.

The DCO application will be examined by an Examining Authority (a single Inspector or panel of Inspectors appointed from the Planning Inspectorate) on behalf of the Secretary of State over a six-month examination period. Liverpool Bay CCS Limited anticipates that the examination period will run from around the fourth quarter 2022 until early 2023, The Examining Authority will then make a recommendation to the Secretary of State who will then make the final decision whether or not to grant a DCO in the third quarter of 2023.

If granted, the DCO would authorise the construction and operation of the Proposed Development. The DCO would also include compulsory acquisition powers for the permanent acquisition of land and / or rights over land. The DCO may also include (if required) powers for the temporary occupation of land, the extinguishment or overriding of easements and other rights over or affecting land required for the Proposed Development, the application and / or disapplication of legislation relevant to the Proposed Development, highway powers and tree and hedgerow removal, amongst other matters.

3. Environmental Impact Assessment

As the proposed development falls under paragraph 2(1) of Schedule 1 of the EIA Regulations 2017, the DCO application will also be supported by an Environmental Statement (**'ES'**) that will be prepared following the undertaking of an Environmental Impact Assessment (**'EIA'**). The ES will contain information about the likely significant environmental effects of the Proposed Development, and how any adverse effects will be mitigated.

As part of this public consultation, you can view the Preliminary Environmental Information Report (**'PEIR'**), which sets out Liverpool Bay CCS Limited's preliminary view of the likely significant environmental effects. The PEIR does not contain the final findings, as the EIA is ongoing and a full ES will be submitted as part of the DCO application. The Non-Technical Summary (**'NTS'**) of the PEIR provides a non-technical overview of the findings set out in the PEIR.

4. The public consultation

The public consultation will be held from 9 February 2022 to 22 March 2022 and gives you the opportunity to provide your feedback or questions on the proposals for the Proposed Development. **Please provide your feedback by 11.59pm on 22 March 2022.** More information can be found at [\[REDACTED\]](#)

Liverpool Bay CCS Limited plans to hold online presentations and drop-in face-to-face events in the vicinity of the Proposed Development as set out in Table 1 below. All appropriate COVID-19 precautions will be taken and relevant government guidance at the time of the events will be followed. If it is not possible to hold in-person events due to COVID-19 restrictions, an additional online event shall be organised in lieu of each cancelled face-to-face event. We advise those interested in attending any of the in-person events to check [REDACTED] prior to attending for any updates to the events.

Table 1

Date	Location	Time
Tuesday 15 February 2022	Llanasa Village Hall, Llanasa, Holywell, CH8 9NF	2-4pm
Tuesday 15 February 2022	Talacre Community Centre, Gamfa Wen, Talacre, CH8 9RT	5-7pm
Monday 28 February 2022	Vernon Institute, 62 Hermitage Road, Saughall, CH1 6EN	3-7pm
Saturday 5 March 2022	Quay Building, Fron Road, Connah's Quay, CH5 4PJ	11am - 1pm
Saturday 5 March 2022	Northop Village Hall, High Street, Northop, CH7 6BQ	2-4pm
Saturday 5 March 2022	Queensferry War Memorial Institute, Chester Road West, Queensferry, CH5 1SA	5-7pm
Wednesday 9 March 2022	Ellesmere Port Civic Hall, Civic Way, Ellesmere Port, CH65 0AZ	3-7pm
Saturday 19 February 2022	Online event - book your place at [REDACTED]	1-2pm
Thursday 24 February 2022	Online event - book your place at [REDACTED]	6-7pm
Friday 11 March 2022	Online event - book your place at [REDACTED]	11am - 12pm

Throughout the public consultation period from 9 February 2022 to 22 March 2022, you can view hard copies of the consultation materials at the deposit point locations and times listed in Table 2 below.

Table 2

Venue and address	Opening times
Ellesmere Port Library Civic Way, Ellesmere Port, CH65 0BG 0151 337 4684	Monday 9am-7pm, Tuesday 9am-5pm, Wednesday 9am-5pm, Thursday 9am-7pm, Friday 9am-7pm, Saturday 9am-1pm, Sunday Closed.
Flint Library Church Street, Flint, CH6 5AP 01352 703737	Monday 9:30am-5pm, Tuesday 9:30am-7pm, Wednesday 9:30am-5pm, Thursday 9:30am-7pm, Friday 9:30am-5pm, Saturday 9:30am-12pm, Sunday Closed.
Prestatyn Library 21 King's Avenue, Prestatyn, LL19 9AA 01745 854841	Monday 9.30am-6pm, Tuesday 9.30am-5pm, Wednesday 9.30am-1pm; Thursday 9.30am-5pm, Friday 9.30am-5pm, Saturday 9.30am-12.30pm, Sunday Closed.
Chester Library at Storyhouse Hunter Street, Chester, CH1 2AR 01244 409113, option two	Monday - Saturday 8.30am-7pm, Sunday 9.30am-6pm.

We advise members of the public to check with the relevant venue regarding any COVID-19 restrictions that may be in place prior to visiting. In the event of needing to cancel the use of deposit points due to COVID-19 restrictions, the consultation materials will remain available to view online at [REDACTED]

Hard copies of the consultation materials will also be made available upon request, regardless of the COVID-19 situation. Copies of the public consultation brochure and non-technical summary of the PEIR will be provided free of charge. Due to the size of the PEIR as a detailed technical document, a charge of £200 will be made for the printing and delivery of the PEIR upon request.

5. How to respond to the public consultation

We would welcome your views on the Proposed Development. You can respond to the public consultation by:

- Completing a questionnaire online at: [REDACTED]
- Emailing us at: info@hynet.co.uk
- Writing to us at: FREEPOST HYNETH NORTH WEST

When providing a response or representation, please include your name / the name of the body or organisation you represent, the main contact person and an address where correspondence about your response or representation may be sent.

Your responses will be analysed by Liverpool Bay CCS Limited and its appointed agents and may be passed in due course to the Secretary of State for Business, Energy and Industrial

Strategy, the Planning Inspectorate and any other relevant statutory authorities so that your comments can be considered as part of the DCO application process. Your responses may therefore be made public, however, we will request that your personal details are not placed on public record. Liverpool Bay CCS Limited, Eni UK Limited (the company which owns Liverpool Bay CCS Limited) and appointed agents will hold your personal details securely and in accordance with applicable data protection legislation. They will be used solely in connection with the public consultation process and subsequent DCO application and, except as noted above, they will not be passed to third parties.

Yours faithfully,

Martin Currie
Director
Liverpool Bay CCS Limited

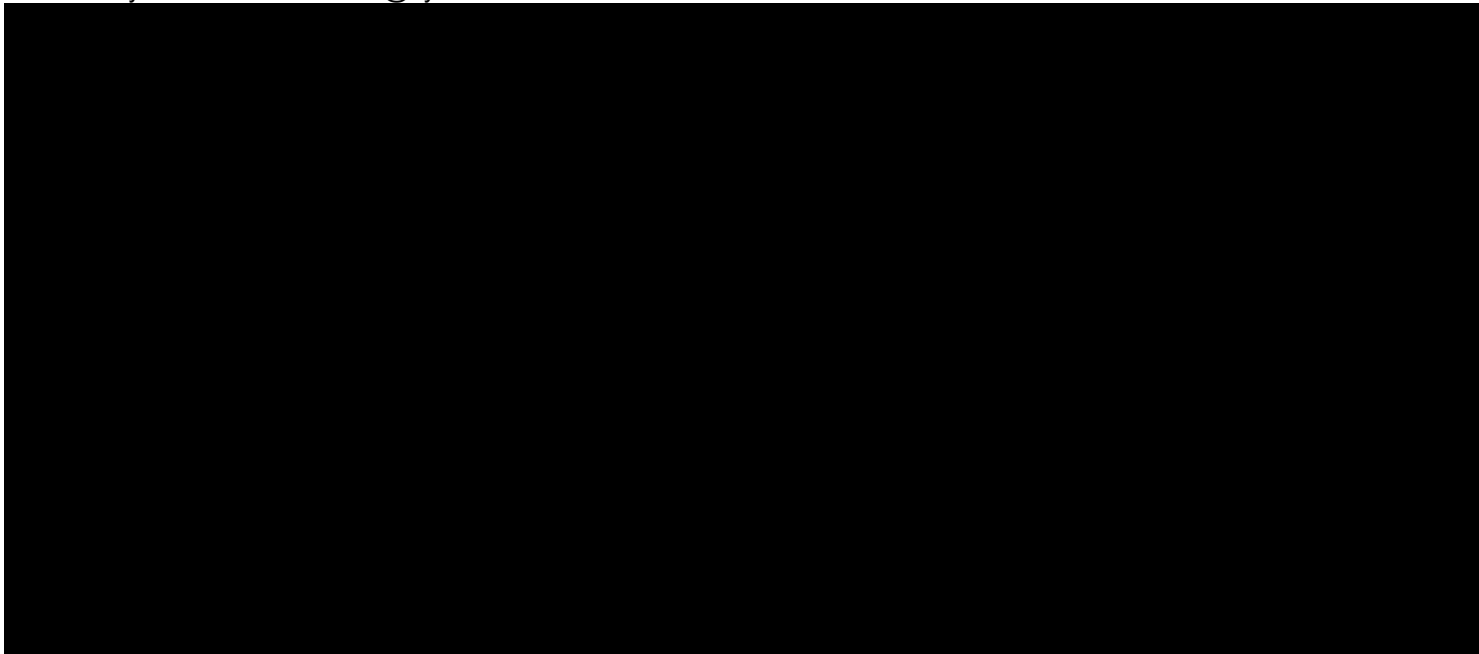


HyNet North West <info@hynet.co.uk>

Hynet North West - Proposal for new carbon dioxide pipeline Consultation

HyNet North West <info@hynet.co.uk>
To: HyNet North West <info@hynet.co.uk>

Mon, Feb 7, 2022 at 4:09 PM



Dear Sir/Madam,

Please find attached information on our proposal to install a new carbon dioxide (CO₂) pipeline between Ince, near Stanlow, and Flint. It will link into an existing gas pipeline running from Flint to Point of Ayr, which will be repurposed. The pipeline will remove CO₂ emissions from industry and store them permanently in depleted gas reservoirs beneath Liverpool Bay. Our consultation on this proposal runs from 9th February to 22nd March 2022.

Yours,

Kirsty Scott
On behalf of HyNet North West

2 attachments

HyNet_Brochure.pdf
14401K



Non-Statutory Consultees Letter.pdf
65K

G3

Email to Schools

HyNet
North West



Scott, Kirsty

From: Scott, Kirsty
Sent: 08 March 2022 11:23
To: 'HyNet North West'
Subject: HyNet carbon dioxide pipeline consultation school outreach programme
Attachments: Consultation Brochure.pdf

Good morning,

I hope you are well.

As National Careers Week and British Science Week approach, I am contacting you about the HyNet project and the opportunities we can provide for your students.

HyNet is a low carbon energy project at the forefront of the UK's journey to a Net Zero future. From the mid 2020's, HyNet will produce, store and distribute hydrogen as well as capturing and storing carbon to decarbonise the North West of England and North Wales through the creation of state-of-the-art infrastructure.

This game-changing project has the potential to reduce carbon dioxide (CO₂) emissions by 10 million tonnes every year by 2030 – the equivalent of taking four million cars off the road. By achieving this, HyNet will create and maintain thousands of local jobs, as well as enable long-term sustainability for businesses and financial security for communities across the region.

We are keen to reach out to schools which are close to HyNet's infrastructure. We know how important it is to be actively taking steps now to improve our children's future by working towards the UK's goal of Net Zero by 2050.

Part of HyNet's infrastructure is an underground pipeline which will transport carbon dioxide emissions, captured from local industry, to be locked away under the sea bed in Liverpool Bay. We are currently consulting on the installation of a new CO₂ pipeline. This consultation is running until 22nd March.

Please see attached for copies of our brochures for your information.

As it is coming up to British Science Week shortly (11th – 20th March) and currently National Careers Week (7th – 12th March), we are keen to offer our services to talk about the project to your students. We would be more than happy to speak around topics that would suit your students' interests.

We could also:

- For British Science Week we could provide detail about the modern technology of carbon capture and storage (CCS) which we will be using in the local area. We would also like to provide information on the new hydrogen economy as the North West and North Wales will become an epicentre of hydrogen energy.
- For National Careers Week we could like to talk about the jobs HyNet can create and safeguard. HyNet will deliver 6,000 permanent local jobs and support up to 75,000 jobs across the UK by 2035. We would be keen to talk to pupils who might be interested in a career in the energy sector.

We would initially like to offer this via an online platform such as Teams or Zoom.

If this is something you would be interested in, please get in touch.

You can find out more about the HyNet project at [\[REDACTED\]](#).

Many thanks
The HyNet CO₂ pipeline Team

G4

Library Posters

HyNet
North West





HYNET NORTH WEST CONSULTATION

9TH FEBRUARY – 22ND MARCH 2022

CONSULTATION MATERIAL IS AVAILABLE HERE TODAY PLEASE ASK A LIBRARIAN

We are consulting on the carbon dioxide pipeline from Ince to Point of Ayr. We will be holding three live online consultation events and seven face-to-face events as part of this consultation. This will give you the opportunity to hear more about the proposals and raise any questions you may have to the project team.

Please see below for event dates and times. You can find more details on how to attend these events on the HyNet Hub: [REDACTED]

HyNet North West



[REDACTED]k



info@hynethub.co.uk



0203 116 5919



FREEPOST HYNETHUB NORTH WEST

DATE	LOCATION	TIME
Tuesday, 15 February 2022	Llanasa Village Hall, Llanasa, Holywell, CH8 9NF	2 - 4pm
Tuesday, 15 February 2022	Talacre Community Centre, Gamfa Wen, Talacre, CH8 9RT	5 - 7pm
Monday, 28 February 2022	Vernon Institute, 62 Hermitage Road, Saughall, CH1 6EN	3 - 7pm
Saturday, 5 March 2022	Quay Building, Fron Road, Connah's Quay CH5 4PJ	11am - 1pm
Saturday, 5 March 2022	Northop Village Hall, High Street, Northop, CH7 6BQ	2 - 4pm
Saturday, 5 March 2022	Queensferry War Memorial Institute, Chester Road West, Queensferry, CH5 1SA	5 - 7pm
Wednesday, 9 March 2022	Ellesmere Port Civic Hall, Civic Way, Ellesmere Port, CH65 0AZ	3 - 7pm
Saturday, 19 February 2022	Online presentation - book your place at [REDACTED]	1 - 2pm
Thursday, 24 February 2022	Online presentation - book your place [REDACTED]	6 - 7pm
Friday, 11 March 2022	Online presentation - book your place at [REDACTED]	11am - 12pm



YMGYNGHORIAD HYNET NORTH WEST

9TH FEBRUARY – 22ND MARCH 2022

MAE DEUNYDD YR YMGYNHORIAD AR GAEL YMA HEDDIW

GOFYNNWCH I IYFRGELLYDD

Rydym yn ymgynghori ar y biblinell carbon deuocsid rhwng Stanlow yn Swydd Gaer i'r Fflint yng ngogledd Cymru. Byddwn yn cynnal tri digwyddiad ymgynghori byw ar-lein a saith digwyddiad wyneb yn wyneb fel rhan o'r ymgynghoriad hwn. Bydd hyn yn rhoi cyfle i chi glywed mwy am y cynigion a gofyn unrhyw gwestiynau sydd gennych i dîm y prosiect. Gweler isod ddyddiadau ac amseroedd y digwyddiadau.

HyNet Hub: [REDACTED]

HyNet North West



[REDACTED]



info@hynethub.co.uk



0203 116 5919



FREEPOST HYNET NORTH WEST

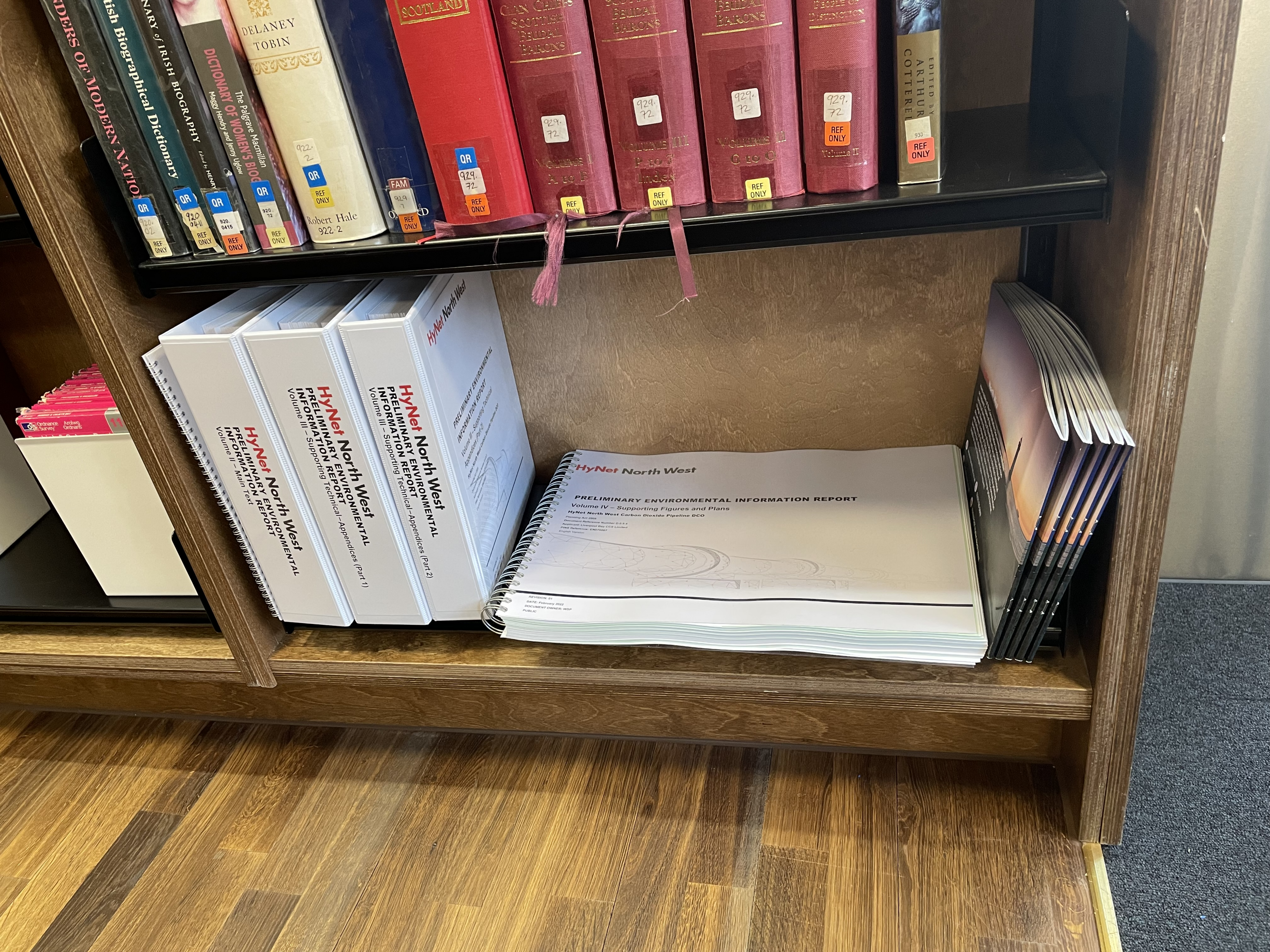
DATE	LOCATION	TIME
Tuesday, 15 February 2022	Llanasa Village Hall, Llanasa, Holywell, CH8 9NF	2 - 4pm
Tuesday, 15 February 2022	Talacre Community Centre, Gamfa Wen, Talacre, CH8 9RT	5 - 7pm
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Thursday, 24 February 2022	Online presentation - book your place at [REDACTED]	6 - 7pm
Friday, 11 March 2022	Online presentation - book your place at [REDACTED]	11am - 12pm

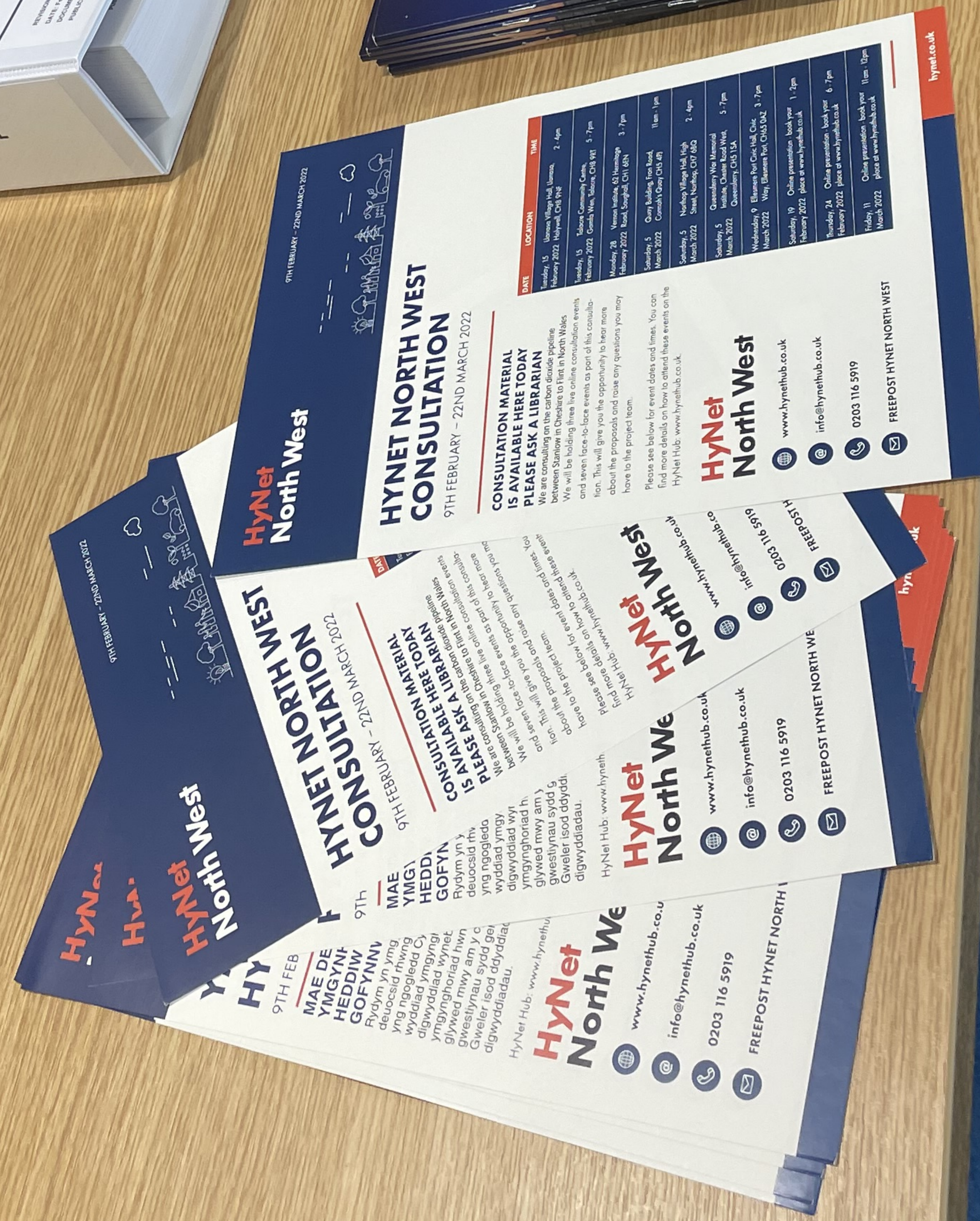
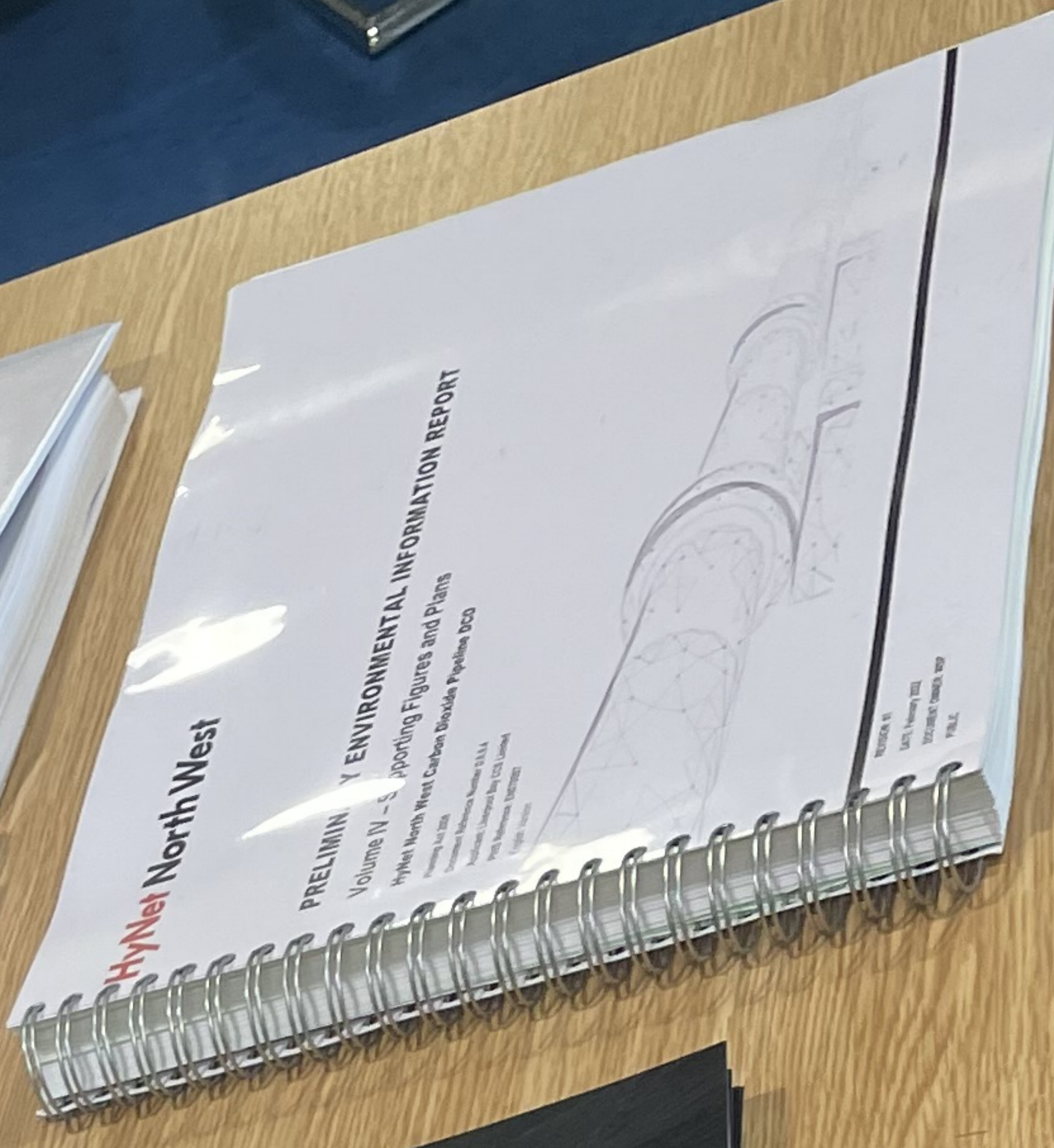
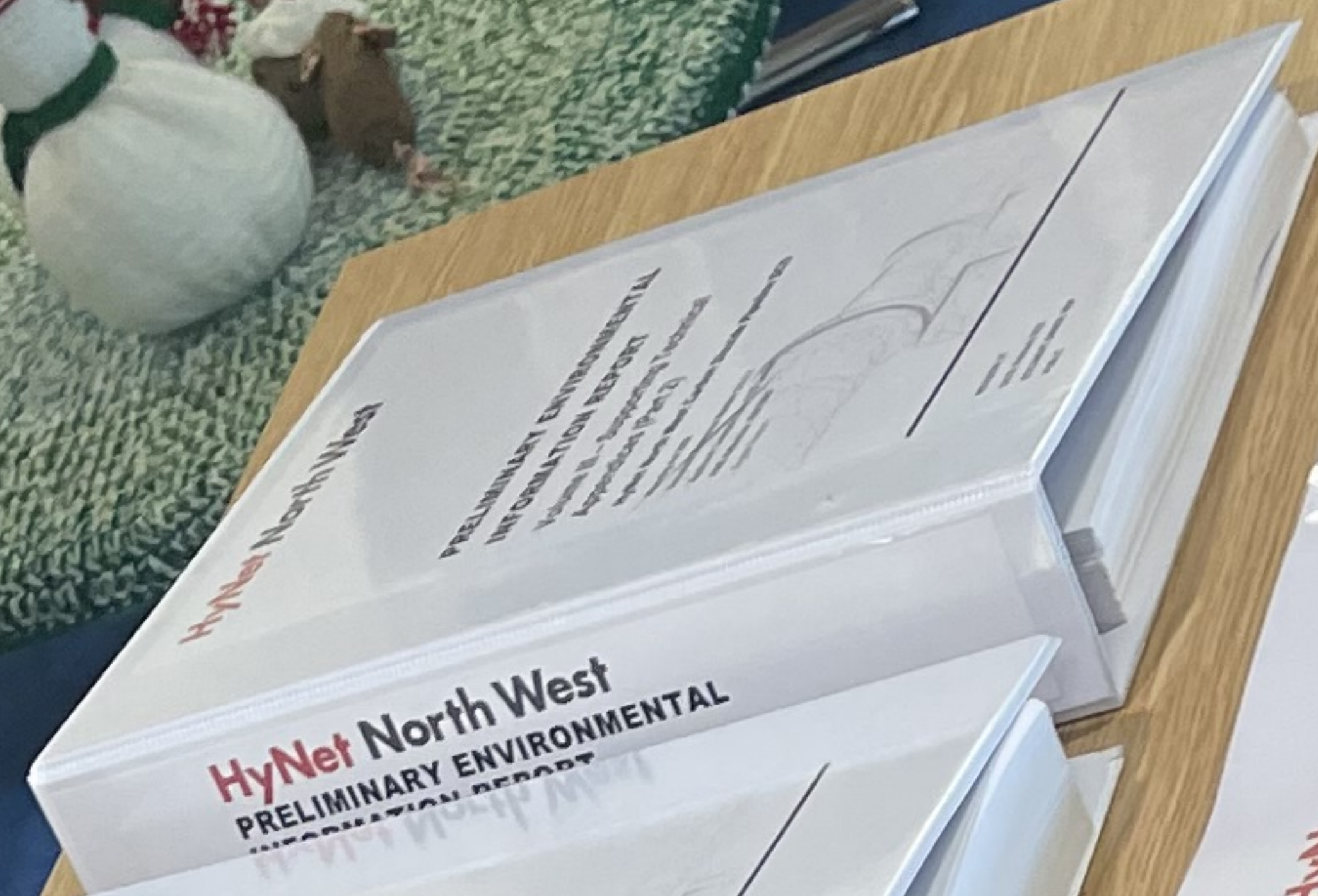
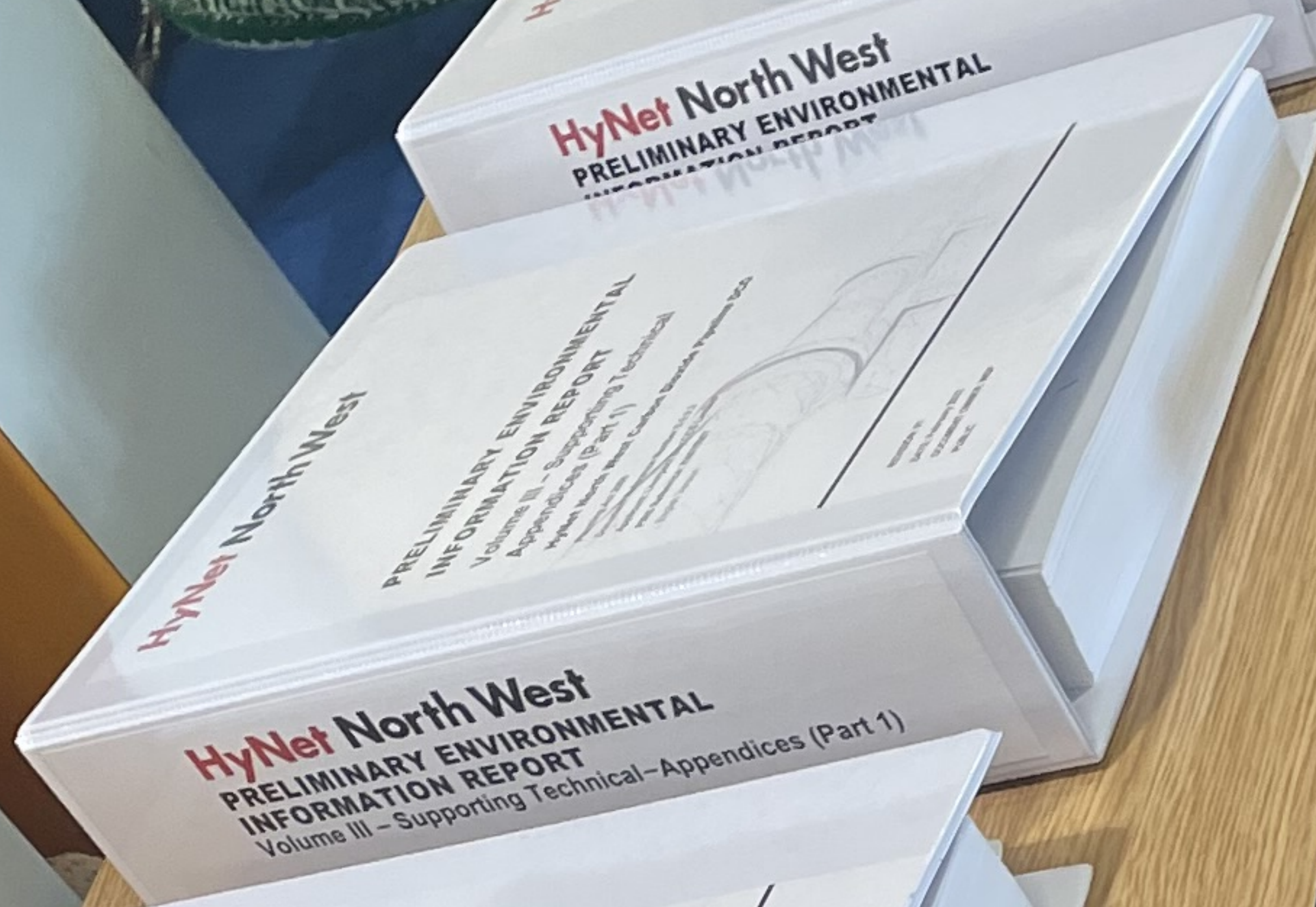
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Photos of Documents in Deposit Locations

HyNet
North West







WEDNESDAY/MERCHER
10.30am/yb
Every week/bob wythnos

THE SPORTING MEMORIES FOUNDATION

Do you, or someone you know, love talking about or remembering sport?

Join us at Flint Library and meet new friends and share your sporting memories. Please contact us for information 01352 703737

#Dwi'n newydd
#I'm New

WE'RE ALWAYS OPEN
Borrow eBooks and eAudiobooks right now.

Borrow Box

HyNet North West

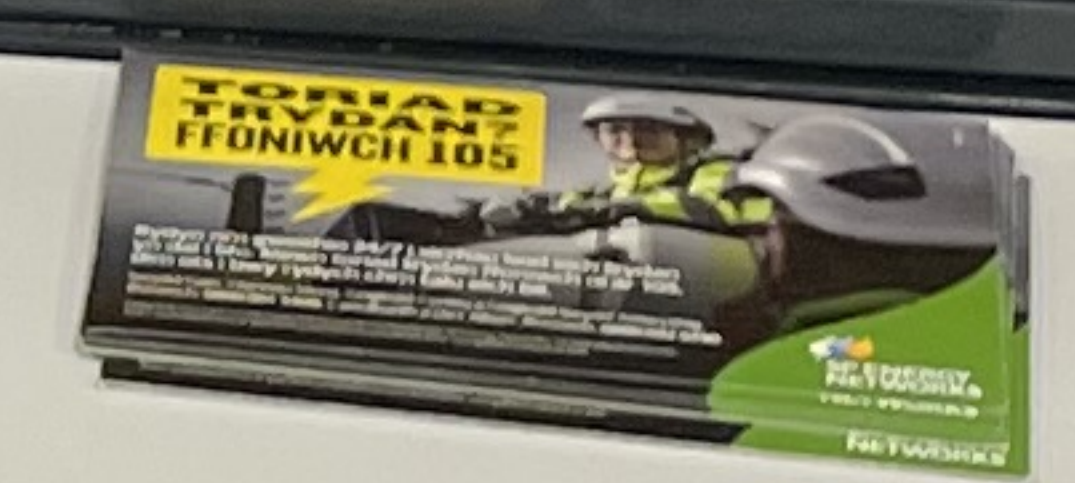
PRELIMINARY ENVIRONMENTAL INFORMATION REPORT
Volume II - Main Text
HyNet North West Carbon Dioxide Pipeline DCO

HyNet North West

PRELIMINARY ENVIRONMENTAL INFORMATION REPORT
Volume III - Supporting Technical Appendices (Part 1)
HyNet North West Carbon Dioxide Pipeline DCO

HyNet North West

PRELIMINARY ENVIRONMENTAL INFORMATION REPORT
Volume III - Supporting Technical Appendices (Part 2)
HyNet North West Carbon Dioxide Pipeline DCO



HyNet North West

PRELIMINARY ENVIRONMENTAL INFORMATION REPORT
Volume I - Non-TEC
HyNet North West Carbon Dioxide Pipeline DCO

HyNet North West

CARBON DIOXIDE (CO₂) PIPELINE CONSULTATION
FEBRUARY - MARCH 2022

HyNet North West

PRELIMINARY ENVIRONMENTAL INFORMATION REPORT
Volume IV - Supporting Figures and Plans
HyNet North West Carbon Dioxide Pipeline DCO



G6

Social Media Advertising



HyNet

North West



HyNet North West: social media content plan


The below schedule details the completed copy and assets ready to be scheduled for the HyNet social media channels prior to and throughout the statutory consultation period.

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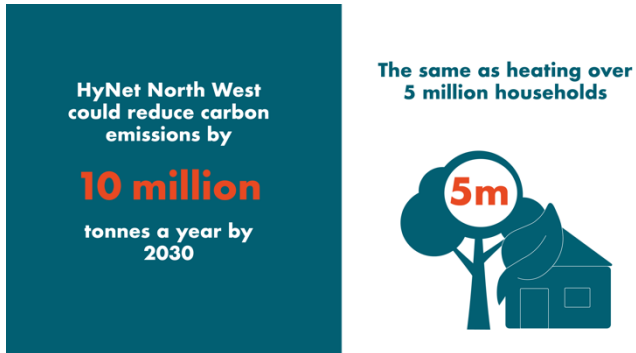

Week 0 – Prior to launch (W/C 31 Jan)

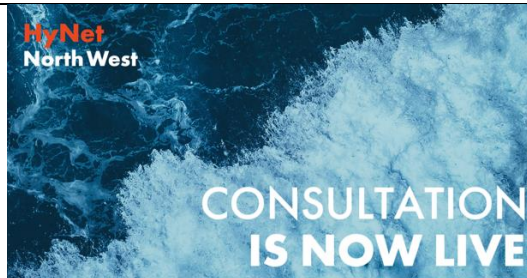

Day	Channel	Copy	Assets
Monday	Twitter	Fun fact #1 (North West industry)	North West photo.
Monday	Facebook	North West history and ambitions	North West visionary photo.
Tuesday	Twitter	Fun fact #2 (North Wales industry)	North Wales photo.


Tuesday	LinkedIn	Regional/industry ambitions, need to give feedback to realise them	Visionary photo.
Wednesday	Twitter	Fun fact #3 (North West ambitions)	Graphic.
Thursday	Twitter	Fun fact #4 (North Wales ambitions)	Graphic.
Thursday	Facebook	North Wales history and ambitions	North Wales visionary photo.
Thursday	LinkedIn	Outline benefits, need to give feedback to realise them	Benefits image (CO2 pipeline version of below). 
Friday	Twitter	Fun fact #5 (National ambitions)	Visionary photo.
Friday	Facebook	Benefits - economic	Economic benefits graphic.
Sunday	Facebook	Benefits - community and environment	Community and environment graphic (air quality).

Week 1 – Consultation launch (W/C 7 Feb) – launch on 9 Feb

Day	Channel	Copy	Assets
Monday	Twitter	FAQs – What is HyNet?	
Monday	Facebook	<p>Our CO₂ pipeline will benefit North Wales by decarbonising heavy industry, improving air quality and protecting jobs, Including @Hanson_UK's Padeswood Cement Plant, which will become the first in the UK to be part of a carbon capture & storage scheme.</p> <p>Find out more about how HyNet North West will benefit North Wales at [REDACTED]</p>	
Monday	LinkedIn	<p>Our CO₂ pipeline will benefit North West England and North Wales by decarbonising heavy industry, protecting and creating thousands of jobs while improving air quality.</p> <p>This includes 'difficult to decarbonise' industries, like cement manufacturing. @Hanson_UK's Padeswood Cement Plant will become the first in the UK to be part of a carbon capture & storage scheme.</p>	Lauren Kinch video

		Find out more about how HyNet North West will benefit North West England and North Wales at [REDACTED]	
Tuesday	Twitter	Our CO2 pipeline will help rapidly decarbonise the #NorthWest & #NorthWales and provide a range of benefits. Help us realise these by having your say at [REDACTED]	<p>Emissions reduction graphic (CO2 pipeline version of below).</p>  <p>The graphic consists of two parts. On the left, a dark teal box contains the text: 'HyNet North West could reduce carbon emissions by 10 million tonnes a year by 2030'. The number '10 million' is in large orange font. On the right, white text says 'The same as heating over 5 million households' above an illustration of a tree with a circular canopy containing the text '5m' and a house.</p>
Wednesday	Twitter	<p>Today marks the launch of our consultation on #HyNetNW, a ground-breaking low-carbon #netzero energy project.</p> <p>Visit HyNetHub.co.uk to find our more and give us your thoughts.</p>	 <p>The graphic features a background of white, turbulent water or steam. In the top left corner, the 'HyNet North West' logo is visible. Large white text in the bottom right corner reads 'CONSULTATION IS NOW LIVE'.</p>
Wednesday	Twitter	Our CO ₂ pipeline will help heavy industry in North Wales reach #netzero, protecting and creating thousands of local #jobs. Have your say at [REDACTED] to help us realise these benefits	

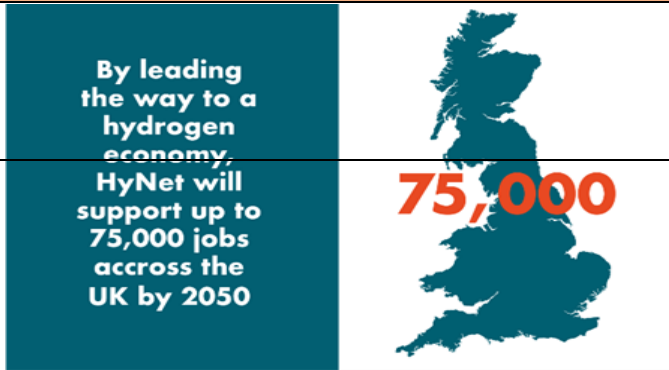
Wednesday	Twitter	HyNet is a groundbreaking project that will help drive the region's net zero visions – we need your feedback to help make this a reality. Visit [REDACTED]	
Wednesday	Facebook	<p>Today marks the launch of our consultation on HyNet North West, a ground-breaking low-carbon energy project, that will unlock a net zero future for the North West and North Wales.</p> <p>Visit [REDACTED] to find our more and give us your thoughts.</p>	 <p>A graphic with a blue, swirling, cloud-like background. In the top left corner, the text 'HyNet North West' is displayed in orange and white. In the bottom right corner, the text 'CONSULTATION IS NOW LIVE' is written in large, white, bold, sans-serif capital letters.</p>
Wednesday	LinkedIn	<p>As the Government drives forward plans for a net-zero UK by 2050, regions with strong industrial bases such as North West England and North Wales are facing challenges. By creating an innovative carbon capture system, HyNet will help local industries remain viable by keeping carbon emissions low, creating thousands of local jobs and supporting tens of thousands nationwide.</p> <p>We need local businesses to have their say at [REDACTED] k to deliver these benefits, helping</p>	 <p>A video player interface showing a cityscape at dusk or dawn. The text 'THE NORTH WEST IS KNOWN FOR ITS BOLD INNOVATION' is overlaid in white and orange. The video player includes a play button, a progress bar, and a timestamp of 05:05.</p>


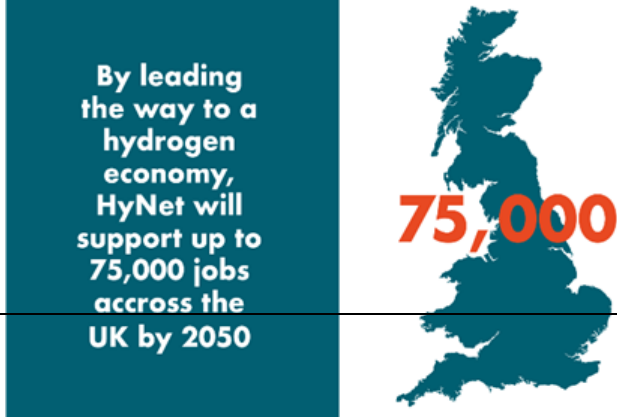
		<p>deliver a net zero future for the region.</p> <p>#Consultation #Industry #RegionalGrowth #NorthWestJobs #NorthWalesJobs</p>	
Thursday	Twitter	<p>Local authorities in the North-West have set ambitious net-zero targets well ahead of 2050. But how are they going to be achieved? HyNet will help to drive this change in the region. Providing world leading green infrastructure and creating a cleaner, greener industry for generations to come.</p> <p>[REDACTED] @LCR @greatermc @Go_CheshireWest)</p>	
Thursday	Facebook	Q&A video.	
Friday	Twitter	Q&A video.	
Friday	Facebook	Explain the need for the pipeline and its benefits.	Animation
Friday	LinkedIn	This first phase of HyNet North West will deliver a carbon capture and storage (CCS) network to help heavy industry in the North West	CCS explainer


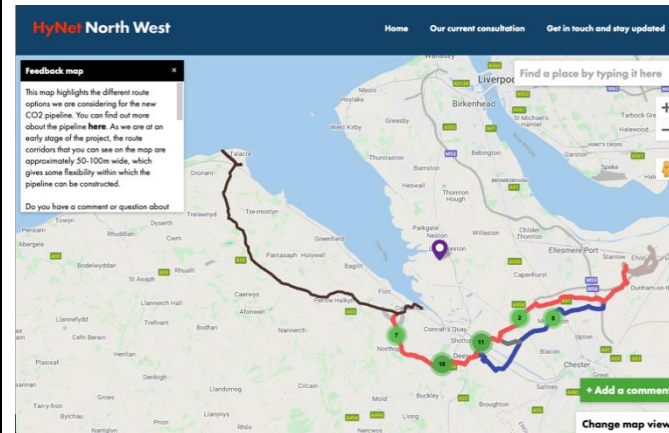
		<p>and North Wales decarbonise. But how will this work?</p> <p>Our underground pipeline will take harmful CO₂ emissions away from factories and businesses. It will then safely transport and store these emissions permanently in depleted gas fields under the sea.</p> <p>This technology will help local industry stay viable during the road to net zero, protecting and creating thousands of local jobs.</p> <p>Have your say at [redacted] to help us realise these benefits.</p> <p>#CCS #carboncapture</p>	
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Saturday	Facebook	Advertise in-person event on Tue 15.	 <p>WHAT IS CARBON CAPTURE AND STORAGE (CCS)?</p> <p>CARBON CAPTURE Using gas separation processes to strip out and capture up to 90% of CO2 emissions from industrial processes, like manufacturing fertilizer.</p> <p>TRANSPORT Moving CO2 through pipeline, from industry and local businesses to point of storage.</p> <p>STORAGE Safely and securely storing CO2 deep below the seabed, in a depleted gas field that has held gas for millions of years, using tried and tested methods.</p> <p>HyNet North West</p>
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Week 2 (W/C 14 Feb): in-person event on Tue 15 Feb, online event on Sat 19 Feb


Day	Channel	Copy	Assets
Monday	Twitter	Explain need for pipeline.	 <p>By leading the way to a hydrogen economy, HyNet will support up to 75,000 jobs across the UK by 2050</p> <p>75,000</p>

Tuesday	Twitter	Economic benefits.	Economic benefits graphic
Tuesday	Facebook	In-person event reminder.	
Tuesday	LinkedIn	Explain need for pipeline and its range of benefits.	

Wednesday	Twitter	Community benefits.	Emissions reduction graphic.
Thursday	Twitter	Advertise online event on Sat 19.	 <p>A banner for HyNet North West Decarbonisation Webinars. It features a woman with long dark hair looking out over a coastal landscape at sunset. The text 'HyNet North West' is in the top left. On the right, it says 'Meet the project team and ask your questions at our'. The main title 'DECARBONISATION WEBINARS' is in large white letters at the bottom.</p>
Thursday	Twitter	<p>We've heard from lots of local people and communities on our CO2 pipeline and its benefits.</p> <p>Use our interactive map to have your say and help us realise these benefits. [link to feedback map]</p>	 <p>A screenshot of the HyNet North West Feedback map. It shows a map of the Liverpool and Merseyside area with a proposed CO2 pipeline route highlighted in red and blue. A 'Feedback map' pop-up box is visible on the left, explaining that the map highlights different route options and that users can find out more about the pipeline here. The map includes various place names like Liverpool, Birkenhead, and Chester. At the bottom right, there is a green button that says 'Add a comment' and a link to 'Change map view'.</p>
Thursday	Facebook	Advertise online event on Sat 19.	Decarbonisation webinars image.

Thursday	LinkedIn	Advertise online event on Sat 19.	Decarbonisation webinars image.
Friday	Twitter	Online event promotion.	Benefits image.
Friday	Facebook	Online event promotion.	Benefits image.
Saturday	Facebook	Online event reminder.	Reduce emissions, protecting 1000s of jobs graphic.

Week 3 (W/C 21 Feb): online event on Thu 24 Feb

Day	Channel	Copy	Assets
Monday	Twitter	Advertise online event on Thu 24.	Decarbonisation webinars image.
Monday	LinkedIn	Advertise online event.	Decarbonisation webinars image.
Tuesday	Twitter	Talk about Q&A session.	Q&A video.
Wednesday	Twitter	Online event promotion.	Benefits image
Wednesday	Facebook	Advertise online event.	Decarbonisation webinars image.
Wednesday	LinkedIn	Online event promotion.	 <p>HyNet North West will directly provide 6,000 permanent new jobs in the region</p>
Thursday	Twitter	Online event reminder.	Decarbonisation webinars image.
Thursday	Facebook	Online event reminder.	Reduce emissions, protecting 1000s of jobs graphic.
Friday	Twitter	Link to webinar recording.	Webinar recording.
Friday	Facebook	Advertise in-person event.	CCS explainer
Friday	LinkedIn	Talk about Q&A session.	Q&A video.

Sunday	Facebook	In-person event promotion.	Benefits image
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Week 4 (W/C 28 Feb): in-person events on Mon 28 Feb and Sat 5 Mar



Day	Channel	Copy	Assets
Monday	Twitter	Regional educational ambitions	Vox pop.
Monday	Facebook	In-person event reminder.	Reduce emissions, protecting 1000s of jobs graphic.
Tuesday	Twitter	Regional educational engagement	Graphic
Tuesday	LinkedIn	Regional and national educational ambitions	Vox pops
Wednesday	Twitter	National educational ambitions	Vox pop
Thursday	Twitter	National educational engagement	Graphic
Thursday	Facebook	Advertise in-person event on Sat 5.	CCS explainer
Thursday	LinkedIn	Regional and national environmental benefits.	Graphic
Friday	Twitter	Innovation fast fact.	Supply chain photo.
Friday	Facebook	In-person event promotion.	Benefits graphic.
Saturday	Facebook	In-person event reminder.	Reduce emissions, protecting 1000s of jobs graphic.


Week 5 (W/C 7 Mar): in-person event on Wed 9 Mar, online event on Fri 11 Mar

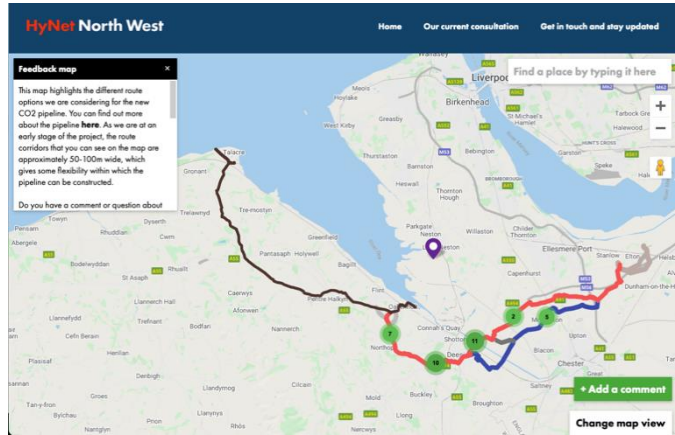
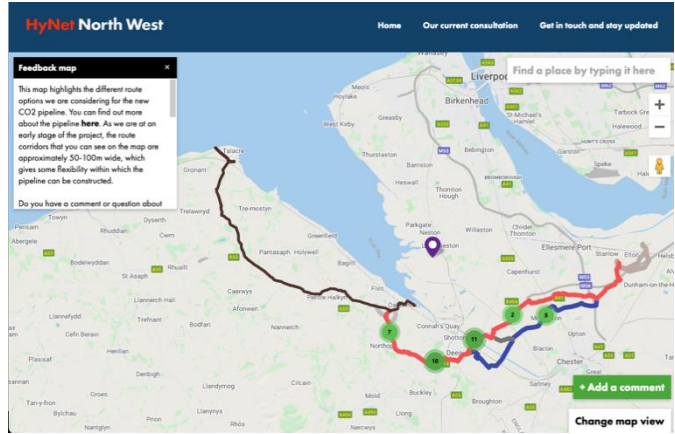
Day	Channel	Copy	Assets
Monday	Twitter	Regional net zero targets	Timeline graphic.
Monday	LinkedIn	Advertise in-person event on Wed 9.	Benefits image.
Tuesday	Twitter	Climate change in the region (risks from not reaching net zero)	Photo.
Tuesday	Facebook	Advertise in-person event on Wed 9.	CCS explainer
Wednesday	Twitter	Environmental group support	Vox pop
Wednesday	Facebook	In-person event reminder.	Reduce emissions, protecting 1000s of jobs graphic.
Wednesday	LinkedIn	In-person event reminder.	6,000 permanent new jobs graphic.
Thursday	Twitter	UK net zero targets	Graphic.
Thursday	Facebook	Advertise online event on Fri 11.	Decarbonisation webinars image.
Friday	Twitter	Online event reminder.	Decarbonisation webinars image.
Friday	Facebook	Online event reminder.	Reduce emissions, protecting 1000s of jobs graphic.
Friday	LinkedIn	Online event reminder.	Decarbonisation webinars image.

Week 6 – Last full week of consultation (W/C 14 Mar)

Day	Channel	Copy	Assets
Monday	Twitter	Need for the project: protect and create jobs.	6,000 permanent new jobs graphic.
Monday	Facebook	Need for the project: protect and create local jobs, clean air.	Reduce emissions, protecting 1000s of jobs graphic.
Tuesday	Twitter	Need for the project: clean air.	Emissions reduction graphic.
Tuesday	Facebook	Need for the project: general.	Vox pop: Welsh councillor.
Tuesday	LinkedIn	Need for the project (risk of businesses becoming unviable due to carbon credits, create and protect jobs, net zero industrial cluster).	Vox pop: consortium partners.
Wednesday	Twitter	Need for the project: overall.	Benefits graphic.

Thursday	Twitter	<p>ICON Consultation closes on Tuesday! You've got less than a week to have your say on our #CO₂ pipeline, that will clean our air and create thousands of local jobs. Have you say at hynethub.co.uk #NetZero</p>	 <p>A graphic with a dark blue background showing a coastline at night. The text 'CONSULTATION ENDS SOON' is in large white capital letters at the top. In the bottom right corner, 'HyNet North West' is written in orange and white.</p>
Thursday	Facebook	<p>Consultation closes on Tuesday, so you've got less than a week to have your say on our CO₂ pipeline, that will:</p> <ul style="list-style-type: none"> ⚙️ Protect & create thousands of local jobs ICON Improve air quality 🏭 Help local industry reduce CO₂ emissions 🌲 Unlock a net zero future for the region <p>Visit HyNetHub.co.uk to have your say and find out more.</p>	 <p>A graphic with a dark blue background showing a coastline at night. The text 'CONSULTATION ENDS SOON' is in large white capital letters at the top. In the bottom right corner, 'HyNet North West' is written in orange and white.</p>

Thursday	LinkedIn	<p>Consultation on our CO₂ pipeline closes on Tuesday. We're using the feedback we've received so far to help develop our proposals, don't miss your chance to influence them too.</p> <p>As it stands, our pipelines will:</p> <ul style="list-style-type: none"> ⚙️ Protect & create thousands of local jobs 🏭 Help local industry reduce CO₂ emissions 🏠 Improve air quality 🌲 Unlock a net zero future for the region <p>Your input can help us build on these benefits and provide others.</p> <p>Visit [redacted] to have your say and find out more.</p> <p>#jobs #industry #netzero #carboncapture #airquality</p>	
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Friday	Twitter	<p>We've heard from lots of local people and communities on our CO2 pipeline and Its benefits.</p> <p>Use our interactive map to have your say and help us realise these benefits.</p>	
Friday	Facebook	<p>So far we've heard from lots of local people and communities on the need for our CO2 pipeline and Its benefits for the region, and there's still time for you to give us your thoughts!</p> <p>Use our interactive feed-back map to have your say and help us realise these benefits. But be quick – consultation ends on Tuesday!</p>	

Week 7 – Consultation close and Post-consultation (W/C 21 Mar) – closes on 22 Mar

Day	Channel	Copy	Assets
Monday	Twitter	Consultation ends tomorrow... Head over to [REDACTED] to have your say and help us deliver benefits for North Wales and North West England.	Snip of the website (auto-generated).
Tuesday	Twitter	Consultation is ending today! Head over to [REDACTED] to have your say and help us deliver benefits for North Wales and North West England. #netzero #lowcarbon	Emissions reduction graphic.
Tuesday	Facebook	Consultation on our CO2 pipeline is ending today, Make sure you head over to [REDACTED] to have your say and help us create local jobs and Improve air quality for your community.	Reduce emissions, protecting 1000s of jobs graphic.
Tuesday	LinkedIn	Consultation on our CO2 pipeline is ending today! We'll use this feedback to develop our proposals. Head over to	6,000 permanent new jobs graphic.

		██████████ to have your say and Influence them too.	
Wednesday	Twitter	Next steps: how feedback will be used.	Photo of people talking.
Wednesday	Facebook	Next steps: how feedback will be used.	Photo of people talking.
Wednesday	LinkedIn	Next steps: how feedback will be used	Photo of people planning.
Thursday	Twitter	Next steps: engagement plan.	Photo of outreach event.
Thursday	Facebook	Next steps: lay out engagement plans.	Photo of outreach event.
Friday	Twitter	Ask for feedback on the consultation and its promotion.	Feedback graphic.
Friday	Facebook	Ask for general feedback on the consultation and its promotion.	Feedback graphic.
Friday	LinkedIn	Next steps: engagement plans for stakeholders.	Photo of outreach event.

G7

Press Release

HyNet
North West



For immediate release

Communities to influence £1 billion decarbonisation project

HyNet North West, the UK's leading industrial decarbonisation project, opens public consultation for feedback on the proposed carbon dioxide (CO₂), set to begin rapidly decarbonise local industry from 2025.

From Wednesday the 9 February, local communities have the opportunity to learn more about the project and to have their say on a proposed carbon dioxide, part of the UK's leading carbon capture and hydrogen cluster that will unlock a net zero future for the North West and North Wales.

HyNet North West is inviting local communities to [REDACTED] on plans for their carbon dioxide pipeline from 9 February to help them deliver a net zero future for the region.

North West England and North Wales have always been well known for industrial innovation. The project will build on this proud industrial history, leading the UK's carbon capture and hydrogen economy to support the re-establishment of the region as a global exporter of new technologies, skills and services.

The project is also set to help the UK and major local cities such as Manchester, Liverpool and Cheshire meet their ambitious net zero targets.

David Parkin, Project Director of HyNet North West, said: *"This pipeline is a crucial and exciting element of our overall plans to drive rapid decarbonisation for the region. Our carbon capture system will capture CO₂ emissions from factories and businesses and store it safely below the seabed. It will protect local jobs by helping industry stay viable as restrictions tighten on the path to net zero.*

Placing this world-leading infrastructure in the UK's industrial heartlands will re-energise our local economy, improve air quality, and put the UK at the forefront of the global race to net zero. All while making our region cleaner, greener and safer for generations to come."

The consultation for the CO₂ pipeline is running in tandem with the consultation for HyNet's hydrogen pipeline which began on the 24th January. [Combined, these pipelines will](#) provide a vital part of the solution to the national climate emergency, removing ten million tonnes of CO₂ from the atmosphere by 2030 each year, the same as taking over four million cars off the road.

Mersey Dee Alliance said: *“HyNet North West will create over 6,000 local jobs and future-proof tens of thousands more. Its repurposing existing infrastructure celebrates our region’s rich industrial heritage while driving the journey to cleaner, greener technology. It will attract billions of pounds in investment as factories and businesses look to move to areas that can offer cost-effective ways to decarbonise. The mix of local industrial experience and cutting-edge science involved in the project will create a hotspot for innovation, providing a wide range of training and skills opportunities for local people.”*

David Parkin continued: *“We’re delighted to be taking this next step to bring the region to the forefront of clean energy innovation. By reaching out and listening to local people and communities, we can deliver something that is not only innovative but a testament to them.”*

ENDS

Notes to editors

- Statutory public consultation on the first stage of the HyNet project, the carbon dioxide pipeline, will run from on 9th February – 22nd March 2022
- HyNet North West will deliver 75,000 jobs by 2035, building on the proud industrial heritage of North West England and North Wales and continuing the region’s history of world-beating industrial capacity and development.
- HyNet North West aims to reduce regional carbon dioxide emissions by up to 10 million tonnes every year by 2030 – the equivalent of taking four million cars off the road. By that time, HyNet North West alone will already be delivering 80% of the Government’s new UK-wide target of 5GW of low carbon hydrogen for power, transport, industry and homes.

Contact

Amy Bodey, Head of Communications for HyNet, Progressive Energy: [REDACTED]@ [REDACTED]
[REDACTED]

HyNet North West is the UK’s leading industrial decarbonisations project, transforming the North West of England, and North Wales. The low carbon energy project is being developed by a consortium of world-leading organisations and is at the forefront of the UK’s journey to a Net Zero future.

HyNet North West

From 2025, HyNet North West will produce, store and distribute hydrogen as well as capturing and storing carbon. It will decarbonise the North West of England and North Wales through the creation of state-of-the-art infrastructure.

This game-changing project has the potential to reduce carbon dioxide (CO₂) emissions by 10 million tonnes every year by 2030 – the equivalent of taking four million cars off the road. HyNet North West will create and maintain thousands of local jobs, as well as enable long-term sustainability for businesses and financial security for communities across the region.

The HyNet North West consortium includes Progressive Energy, Cadent, Essar Oil UK, INOYN, Eni UK, University of Chester, CF Fertilisers and Hanson.

For more information, visit [\[redacted\]](#) or refer to the accompanying press pack.

G8 Launch Newsletter

HyNet
North West



FEBRUARY 2022 PROJECT UPDATE

HyNet
North West

We have launched two consultations for our hydrogen and carbon dioxide pipelines

Combined, these pipelines will help decarbonise heavy industry in North West England and North Wales. This will protect and create thousands of jobs, improve air quality, and unlock a net zero future for the two regions.

Because of the length of the two pipelines, we need to apply for a special kind of planning permission, known as a Development Consent Order, to develop them. Getting feedback from local people and communities is crucial. This will make sure the project is built with them in mind.

You have the power to make a difference. Your feedback can help us identify new ways to help your community as we develop this project. Visit the [REDACTED] for more information.

1. The hydrogen pipeline consultation is now live!

This consultation launched on the 26th January, you can now learn more about HyNet's Hydrogen Pipeline give your feedback at the consultation by visiting - HyNetHydrogenPipeline.co.uk

Being developed by Cadent, the underground pipeline will deliver low carbon hydrogen to industry and power generators in the region. It will take hydrogen to gas blending points near Warrington, Manchester and Northwich for introduction into the existing gas network. In addition, it will connect with storage facilities which will store hydrogen to provide a backup helping to balance supply and demand.

This is the first of two consultations that will take place on the proposed pipeline. This non-statutory consultation is taking place during the early stage of our work to help us shape our proposals. We are also carrying out detailed desktop and technical assessments to understand more about the area we're working in. Our next consultation will happen towards the end of the [REDACTED]

year.

You can find out more about the project on our website at [REDACTED] where you can tell us your thoughts and contact the team working on the hydrogen pipeline to ask any questions.

Take part in the consultation to help realise these benefits – [REDACTED] [k](#)

2. Our consultation for the carbon dioxide pipeline starts today!

Our public consultation for the carbon dioxide pipeline launches Wednesday 9th February. Your feedback is essential – have your say at [REDACTED]

What are we consulting on?

Since our first consultation in Summer 2021, we've refined our plans using your feedback and a series of surveys and research. This has enabled us to select a preferred route for the carbon dioxide pipeline. We are now seeking additional feedback from local communities on our plans. This will help us ensure the project can deliver a range of benefits to local people, businesses and communities for decades to come.

Carbon dioxide pipeline consultation

The pipeline, being developed by Eni, will benefit North West England and North Wales by capturing and storing harmful carbon dioxide emissions from local industry. Reducing the amount of carbon dioxide entering our air by millions of tonnes each year. It will safely store this deep below the seabed in depleted gas fields that have held fossil fuels for millions of years.

By capturing emissions, we will help to protect and create local jobs, as well as provide training and education opportunities. This project will also attract significant investment as factories and businesses look to move to areas that can offer cost-effective ways to decarbonise.

As part of our plans, we will also repurpose existing infrastructure in the area, which is both cost-effective and will help us begin to decarbonise more quickly.

Your feedback is key to helping us realise these benefits. Find out more and have your say at [REDACTED]

Watch this space...

We will host a range of webinars, in-person events and roadshows throughout the upcoming consultations. Details on these events for each of the pipeline consultations can be found on each of the consultation websites and we look forward to meeting local people and communities from across the region.

If you have any questions, thoughts or would like to find out more. Please do email us at info@hynet.co.uk

G9

Postcard

HyNet
North West



HyNet North West

HyNet Carbon Dioxide Pipeline Consultation – February to March 2022

HyNet is proposing to install a new carbon dioxide (CO₂) pipeline between Ince, near Stanlow, and Flint. It will link into an existing gas pipeline running from Flint to Point of Ayr, which will be repurposed. The pipeline will remove CO₂ emissions from industry and store them permanently in depleted gas reservoirs beneath Liverpool Bay.

We would love to hear your views on our proposed new CO₂ pipeline.

Have your say at [REDACTED] by 22 March 2022

The project will deliver several benefits, including:



HyNet will create thousands of new jobs across local communities, generating opportunities for local people to develop new skillsets and train to work in exciting, world-leading sectors.



HyNet will make North Wales and the North West region a leader in clean industrial innovation, tapping into the area's blend of industrial experience and scientific expertise.

This will create opportunities, attracting inward investment and boosting its reputation as a highly attractive location for sustainable organisations.



HyNet has the potential to reduce carbon emissions by 10 million tonnes of carbon per year by 2030, the equivalent to taking four million cars off the road.

This ambitious project will provide world-leading solutions for a cleaner, greener world for generations to come.

We are holding a consultation to seek your views on our proposed project.

This runs from 9 February to 22 March 2022.

You can find more information and provide your comments online at:



Please provide your comments by 11:59pm on 22 March 2022.

We will be holding online webinars and in-person drop-in events where you will be able to discuss your views and ask questions with members of the project team.

Date	Location	Time
Tuesday 15 February 2022	Llanasa Village Hall, Llanasa, Holywell, CH8 9NF	2-4pm
Tuesday 15 February 2022	Talacre Community Centre, Gamfa Wen, Talacre, CH8 9RT	5-7pm
Monday 28 February 2022	Vernon Institute, 62 Hermitage Road, Saughall, CH1 6EN	3-7pm
Saturday 5 March 2022	Quay Building, Fron Road, Connah's Quay CH5 4PJ	11am - 1pm
Saturday 5 March 2022	Northop Village Hall, High Street, Northop, CH7 6BQ	2-4pm
Saturday 5 March 2022	Queensferry War Memorial Institute, Chester Road West, Queensferry, CH5 1SA	5-7pm
Wednesday 9 March 2022	Ellesmere Port Civic Hall, Civic Way, Ellesmere Port, CH65 0AZ	3-7pm
Saturday 19 February 2022	Online presentation - book your place at	1-2pm
Thursday 24 February 2022	Online presentation - book your place at	6-7pm
Friday 11 March 2022	Online presentation - book your place at	11am - 12pm

Have your say at www.hynethub.co.uk by 22 March 2022

If you would prefer a hard copy of the consultation materials, or if you require these in different languages or different formats such as braille or large print, please contact us using the details below.

You can also contact us if you have any questions about the proposed project or the consultation.

Events are subject to change due to Covid regulations. We recommend you check at prior to attending.

HyNet North West



info@hynet.co.uk



0203 116 5919



**FREEPOST HYNETHUB
NORTH WEST**

G10

Consultation Brochure

HyNet
North West



HyNet North West

CARBON DIOXIDE (CO₂)
PIPELINE CONSULTATION

FEBRUARY – MARCH 2022





About HyNet North West

HyNet North West is a ground-breaking energy project that will unlock a low carbon economy for North West England and North Wales to put the region at the forefront of the UK's drive to net zero.

HyNet will produce low carbon hydrogen to replace the fossil fuels we use to fuel our industry, transport and to heat our homes. HyNet will also capture and lock away carbon dioxide (CO₂) emissions produced by the energy intensive industries which make the products we rely on every day.

We are in a climate emergency and we need to act quickly to reduce our emissions. HyNet gives the North West of England and North Wales a solution which can be rolled out to reduce the region's CO₂ emissions this decade. The project comprises of several different elements, including upgrades to existing facilities as well as the construction of new infrastructure.

HyNet is the UK's leading industrial decarbonisation project, with the North West and North Wales being selected by Government as one of only two regions to begin decarbonising from the mid 2020s, bringing economic and environmental benefits to the area and across the UK.



This consultation

This consultation relates to an underground pipeline that will safely transport CO₂ from existing local industry and the new HyNet hydrogen production plant at Stanlow, to be permanently stored offshore in depleted gas reservoirs under Liverpool Bay. Other elements of HyNet will be consulted upon separately.

We understand how important it is to listen to views from those that live and work near the proposed development. We therefore would like to hear your views on our proposals to install a new CO₂ pipeline between Stanlow (Cheshire), and Flint; and to repurpose an existing natural gas pipeline to transport CO₂ between Flint and the existing Point of Ayr Terminal in North Wales. The CO₂ pipeline will include a number of Above Ground Installations (AGIs) and Block Valve Stations (BVS) along the route.

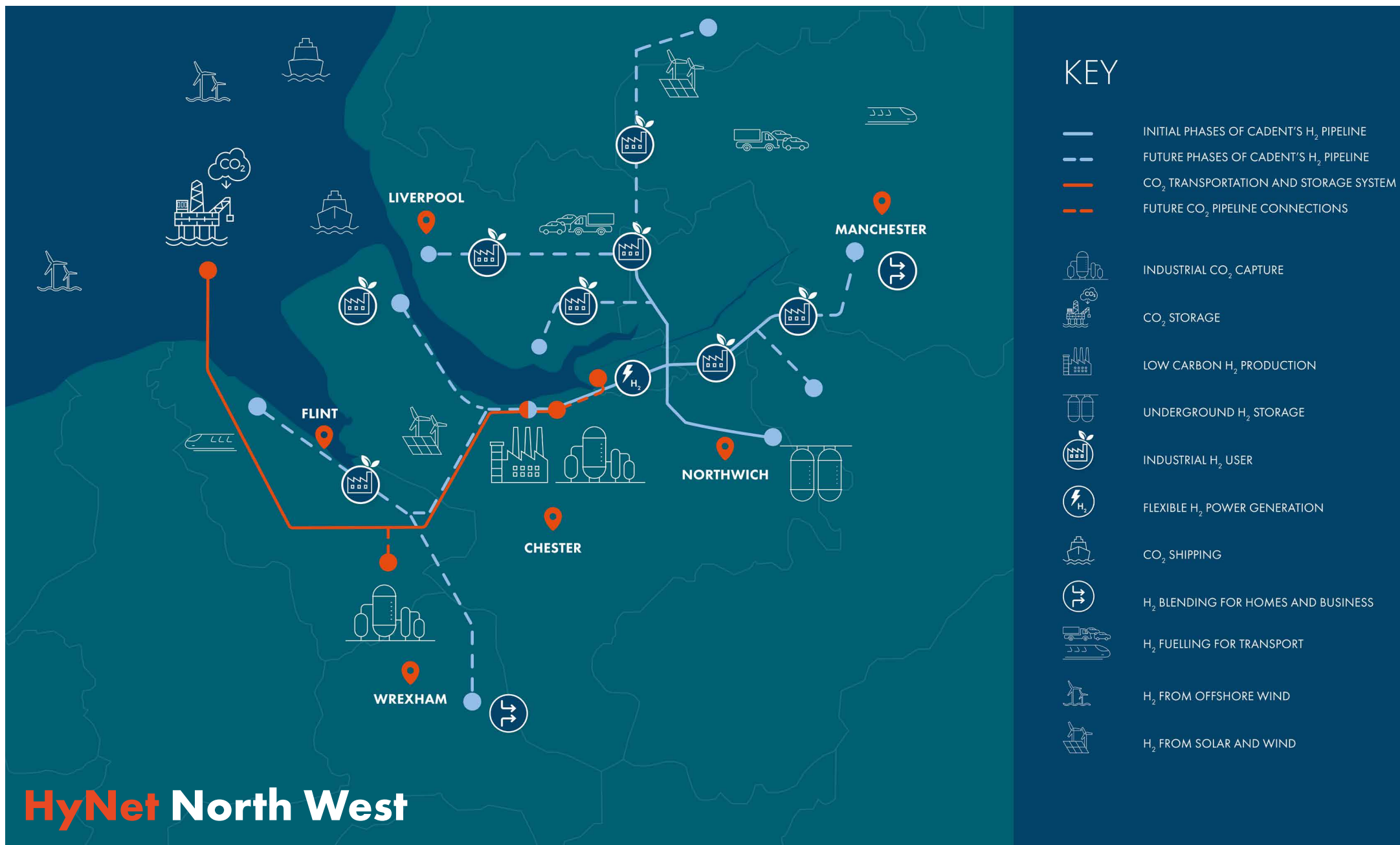
We first consulted on these proposals in Summer 2021 when we presented two possible routes for the newly built CO₂ pipeline, along with alternative options for some elements. We have now selected a preferred route which we believe is the best option and on which we would like your comments. Along parts of the preferred route, we are also asking for your views on several 'sub-options' which you can find more information about within this brochure.

We developed the preferred route by reviewing local survey data and taking into account feedback from the initial consultation. We also collected data from organisations such as local councils, local environmental groups and utility companies, as well as undertaking our own studies.

We believe it is important that local people and communities take this opportunity

to have their say on our plans as your feedback and insight will help to shape the route of the CO₂ pipeline. Before finalising the detailed route, we will listen to, and consider, your feedback on the preferred route and potential mitigation measures for the route and proposals. Following this consultation, we will be preparing to submit an application for development consent to the Secretary of State for Business, Energy and Industrial Strategy (BEIS) later in 2022.

This brochure provides information on the work and studies which have shaped our proposals so far. You can also find more information and provide your comments online at [\[redacted\]](#) If you would prefer a hard copy of the consultation materials, or if you require these in different formats such as braille or large print, please contact us (details on how to do this are on the back cover of this brochure).



The HyNet North West Consortium

HyNet comprises a core consortium of eight partners who are developing the project's main infrastructure. This includes Eni, who are leading the development of the CO₂ pipeline. HyNet also works closely with a wide range of global companies and brands across many sectors – from chemicals, glass and oil refining to food, paper and automotive. These organisations are supportive of HyNet and are ready to actively explore the switch to low carbon hydrogen as soon as it is available from HyNet. This will enable us, as consumers, to buy products from brands which are contributing towards the fight against climate change.



The story so far

To successfully tackle climate change, all parts of the economy must decarbonise and become greener, including heavy industry. That's why the Government has prioritised HyNet North West as one of the first two clusters to decarbonise some of our biggest industrial areas.





North West England and North Wales have always been areas of industrial innovation, providing much of the food, fuel, products and services that allow this country to thrive.

The region has a proud industrial heritage and remains home to many world-class industries including chemicals, glass, ceramics, oil refining, food, paper and automotive. However, these energy intensive sectors currently emit significant amounts of CO₂ during their manufacturing, and need to decarbonise to enable long-term, sustainable operation.

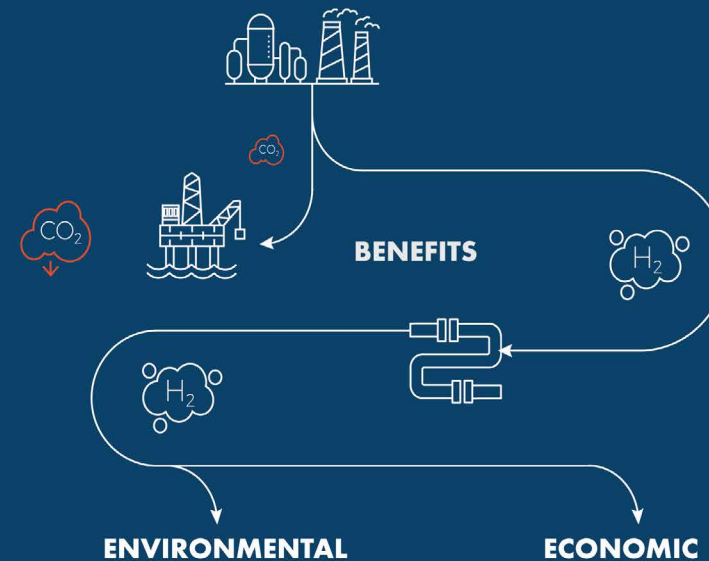
The region's legacy has resulted in an abundance of highly skilled workers and infrastructure. This means that instead of building 'from scratch', HyNet can re-purpose existing infrastructure and benefit from a first-class workforce, allowing us to find more efficient ways to help the region to decarbonise for the future.

HyNet will not only be providing low carbon energy for industry. Hydrogen can also power transport and blend into the gas network to heat our homes, helping to reduce emissions in our day-to-day lives. Once operational, the project will support a low carbon future across Liverpool City Region, Greater Manchester, Cheshire, North Wales and Lancashire.

Benefitting local people and the environment

Creating opportunities for hydrogen production and carbon capture will bring benefits for local people, the region, and the UK as a whole.

HyNet is a national infrastructure project with a regional focus. Not only will it make a big difference towards reducing the amount of CO₂ we emit, it will also have longer-term benefits. Through developing HyNet this, we will help foster a new age of industrial innovation in North West England and North Wales.



4 million cars

HyNet North West could reduce carbon emissions by 10 million tonnes a year by 2030 – the equivalent of taking four million cars off the road.

50% natural gas displacement

Replace nearly 50% of the region's natural gas use with low carbon hydrogen.

80% hydrogen target

HyNet North West will single-handedly be able to deliver 80% of the UK's clean power target for low carbon hydrogen by 2030.

£31 billion

By 2050, HyNet North West could generate up to £17 billion for the local region, and £31 billion for the UK.

6000 local jobs

HyNet North West will directly provide 6,000 permanent jobs in the region.

75,000 UK jobs

HyNet North West is leading the way to a hydrogen economy, which will support up to 75,000 jobs across the UK by 2035.

Local

HyNet will create thousands of new jobs in the North West and North Wales, creating opportunities for local people to develop new skillsets and train to work in exciting, world-leading sectors.

Regional

HyNet will make North Wales and the North West region a leader in clean industrial innovation, tapping into the area's blend of industrial experience and scientific expertise.

We want the region to be recognised as a centre for innovation and clean growth, creating opportunities, attracting inward investment and boosting the region's reputation as a highly attractive location for sustainable organisations. With more opportunity comes more investment, boosting growth and attracting new talent to spread regional prosperity.

National

HyNet has the potential to reduce carbon emissions by 10 million tonnes of carbon per year by 2030, the equivalent to taking four million cars off the road.

This ambitious project will provide world-leading solutions for a cleaner, greener world for generations to come.

Carbon Capture and Storage technology

Carbon Capture and Storage (CCS) is a safe and proven technology that securely stores CO₂ and prevents it from being released into the atmosphere. It is the first step in our vision for Net Zero. The UK Government and the Climate Change Commission see it as an essential technology for the UK to achieve its net zero emissions reduction target. The CO₂ is captured at source from industry. It is then transported by pipeline to permanent underground storage sites.

HyNet's CCS infrastructure will:



Capture CO₂ from industrial sources, including industry and hydrogen production processes.



Transport CO₂ via underground pipelines to a secure storage site.



Permanently store captured carbon dioxide deep beneath the seabed.

You can find out more about how the CO₂ pipeline and the technology works by watching the short animation on [HyNet's CCS infrastructure](#).

Putting safety first

The HyNet consortium partners will never compromise on safety. For instance, Eni UK has extensive experience in designing, building and operating safe and effective high-pressure gas pipelines.

We will utilise this expertise to develop the CO₂ pipeline. We will incorporate principles of safe design based on our own design standards, relevant industry codes of practice, and the requirements of the Pipelines Safety Regulations 1996.



HyNet could provide enough hydrogen to displace nearly 50% of natural gas use across the region.



By 2050, direct spend on HyNet North West and related inward investment will equate to £17 billion for the local region, and £31 billion for the UK.



HyNet will support up to 75,000 jobs across the country by 2035.

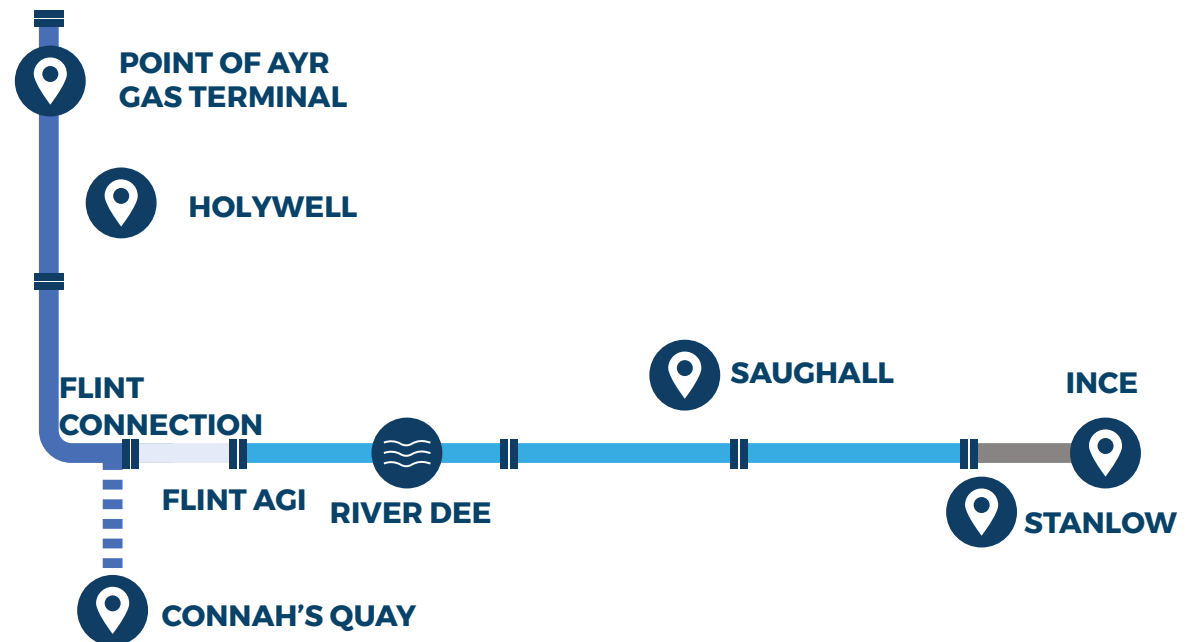


How will the CO₂ be transported?

The CO₂ will be safely transported to depleted reservoirs in Liverpool Bay by a pipeline network comprising new and existing pipelines. This application covers the following four elements:

- A new 20" pipeline to convey CO₂ from Ince to Stanlow
- A new 36" pipeline running from Stanlow and connecting to the existing Point of Ayr to Connah's Quay Natural Gas pipeline at a location close to Flint
- A new 24" pipeline connecting the proposed Flint AGI to Flint Connection
- The existing 24" Point of Ayr to Connah's Quay natural gas pipeline which will be repurposed to transport CO₂ to Point of Ayr

From here, the CO₂ pipeline runs through the Point of Ayr Terminal and then through another 'foreshore' pipeline which extends underwater to the depleted gas reservoirs in Liverpool Bay, where the CO₂ is injected and safely stored. These elements are not included in this application and planning consent will be applied for separately.



	Existing Flint Connection - PoA Pipeline (24") (part of the Existing Connah's Quay - PoA Pipeline)
	The part of the Existing Connah's Quay - PoA Pipeline which is to be decommissioned
	Proposed Flint AGI - Flint Connection Pipeline (24")
	Proposed Stanlow - Flint AGI Pipeline (36")
	Proposed Ince - Stanlow Pipeline (up to 20")

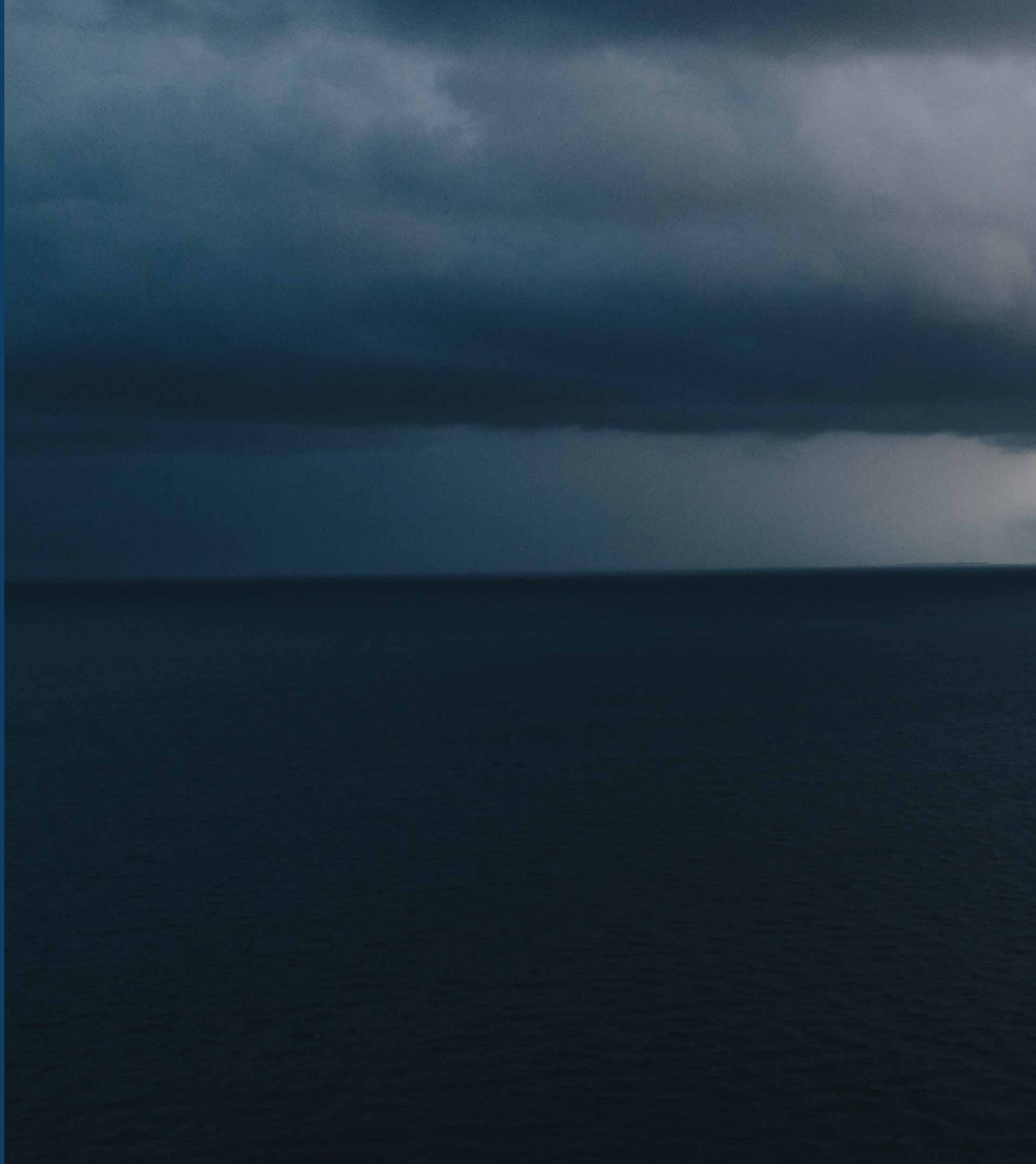


What happens offshore?

The CO₂ will be transported in a pipeline under the sea from the foreshore at Talacre to multiple existing offshore platforms, located in Liverpool Bay. From here, the CO₂ will be injected into the depleted gas reservoirs.

These depleted reservoirs are a safe, secure and natural way to store the captured CO₂. We're reusing these natural features which have stored fossil fuels for millions of years.

The offshore CO₂ pipeline does not form part of this consultation. We will consult with the relevant stakeholders on the offshore works, including the Oil and Gas Authority, the Marine Management Organisation and other environmental bodies to ensure their views are taken into account and incorporated into the offshore design.





Planning consents and DCO stages

As the new-build CO₂ pipeline exceeds 16km in length, it is classed as a Nationally Significant Infrastructure Project (NSIP). This means that we need to apply for a special kind of planning consent known as 'development consent' which is granted in the form of a Development Consent Order ('DCO'). The planning application for the DCO will seek consent for:

- **Construction and operation of:**
 - The new sections of pipeline from Ince to Stanlow Refinery and from Stanlow Refinery to Flint.
 - The Above Ground Installations serving the pipeline.
 - The Block Valve Stations located on the existing repurposed pipeline.
- **Compulsory acquisition powers for land relating to the new and existing pipelines.**
- **New powers to use the existing pipeline for transport of CO₂.**

The DCO application will be examined by an Inspector or a panel of Inspectors, known as the Examining Authority. They will make a recommendation as to whether or not development consent should be granted. It is then the role of the Secretary of State for Business, Energy and Industrial Strategy to make the final decision on whether to grant or refuse development consent for the CO₂ pipeline.

We intend to submit a DCO application in Summer 2022.

OUR DCO APPLICATION WILL PASS THROUGH SIX STAGES:

1

PRE-APPLICATION STAGE

Statutory consultation and an EIA to be carried out before submitting an application (planned for Summer 2022). This is the stage we are in now.

2

ACCEPTANCE (SUMMER/AUTUMN 2022)

The DCO application is submitted and the Planning Inspectorate has 28 days to decide whether it meets the standards required to be accepted for pre-examination.

3

PRE-EXAMINATION (AUTUMN/WINTER 2022)

During this phase, any member of the public can register to become an interested party to give their views on the DCO application before and during the examination. An Examining Authority will be appointed. The Examining Authority will hold a preliminary meeting and set the timetable for examination.

4

EXAMINATION (EXPECTED WINTER – SUMMER 2023)

The Examining Authority will conduct their six-month examination on behalf of the Secretary of State. Interested parties can provide further views at this stage in writing, and request to speak at a public hearing.

5

RECOMMENDATION (EXPECTED AUTUMN 2023)

The Examining Authority provides a report and recommendation to the Secretary of State.

6

DECISION (EXPECTED WINTER 2023)

The Secretary of State makes a decision on the DCO application.

As well as the DCO application, we will also be seeking planning permission from Flintshire County Council for potential works to modify the existing pipeline and the facilities at the Point of Ayr (PoA) Terminal. These elements of the project do not form part of this consultation, which is focused on the DCO application, but they will be subject to a separate consultation later in 2022.

In summary the planning application to Flintshire County Council will include the following elements:

- Modifications to the PoA Terminal

The decommissioning and/or demolition of some of the existing natural gas processing equipment which cannot be repurposed for use with CO₂. We will also apply for permission to construct and operate new equipment used to process and compress the CO₂ prior to it being transported to the permanent underground storage site beneath Liverpool Bay.

- Foreshore works

The decommissioning and removal of the existing BVS located in the field to the west of the Talacre Beach Holiday Park (known as Warren Farm) and the installation of a below ground electricity cable and fibre optic cable from the PoA Terminal to the shoreline to the north-west of the PoA. On completion of these works there would be no above ground infrastructure visible.

How we decided on the preferred CO₂ pipeline route

We held an initial consultation in Summer 2021 to introduce HyNet North West, present the options for the route of the new CO₂ pipeline and explain how they were developed. As part of this, we identified two preferred route options (Options G and I) and possible variations to both options.

Since then we have been reviewing both options, taking a range of considerations, including feedback from stakeholders and local people, into account. You can find information on these considerations on the next page.

Through this consultation, we are now sharing our proposals for our preferred route which is Option G.

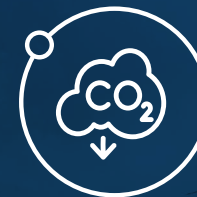
As we set out in the previous consultation, our aim has been to select a route which:



Avoids, minimises
and manages
impacts on the
environment and
local amenities



Optimises the
potential local
socio-economic
benefits within
the region



Ensures the
transportation
of the CO₂ is
undertaken safely
and securely

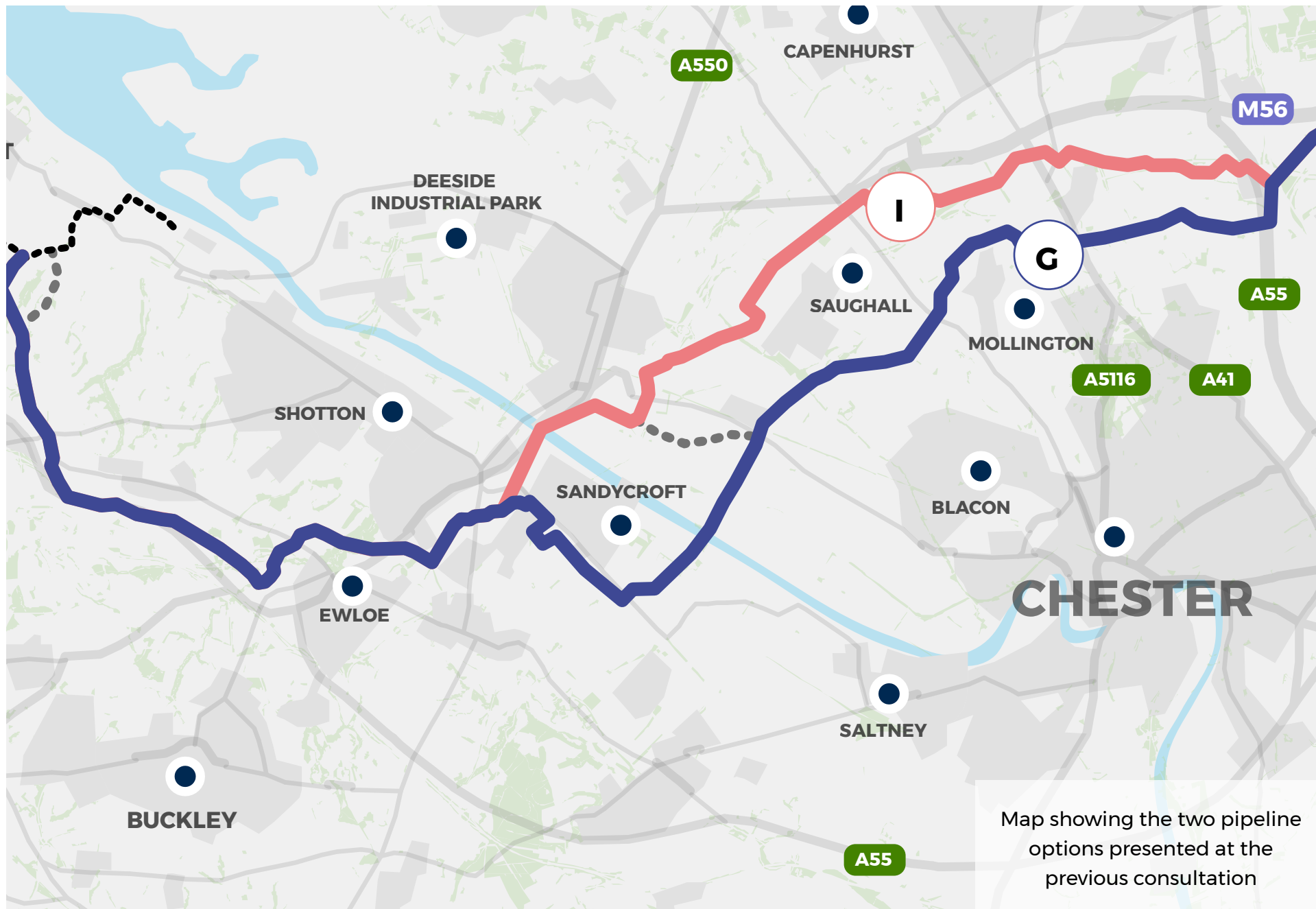


Can be delivered
with the least
disruption to the
local area and
communities



Provides a cost-
effective and
deliverable solution

We will continue to apply these principles as we refine the preferred route and select the final sub-options for the CO₂ pipeline after the consultation in 2022.



The new CO₂ pipeline

When we presented the two route options for the new CO₂ pipeline from Stanlow to Flint (Options G and I), consultation responses indicated a slight preference for Option I with concerns that Option G was closer in proximity to a number of residential settlements.

We have considered feedback from the initial consultation and collected and analysed open source data to inform our design. We have also undertaken a number of desktop studies, surveys and fieldwork to assess the engineering options for the installation of the CO₂ pipeline, such as assessing potential access routes or ground conditions at trenchless crossing locations. As a result of the work and engagement undertaken, we found that Option G performs better than Option I for the following reasons:



Delivery and infrastructure in the area

- Because of the way Option G interacts with motorway and river crossings, it is simpler to deliver than Option I.
- Unlike Option I, Option G avoids the need to tunnel under the water treatment plant at Queensferry .
- Option G avoids impacting potential A 494 expansion plans in Queensferry.



Construction

- Option G has fewer complex crossings.
- Option I is less preferable as it is closer to a greater number of occupied buildings.
- Because of the above considerations, Option G will cause less disruption for local communities overall. Some mitigation measures may be required for some properties close to construction works, although disruption will be kept to a minimum.

Environmental impact

- Option G will have fewer impacts on the environment.
- Option G avoids areas which Flintshire County Council is considering allocating for employment or housing.
- Option G avoids common land near the railway line at the River Dee.

Cost

- As Option G has less engineering complexity and fewer constructability constraints, it is a lower cost option compared to Option I.

Connection to the existing CO₂ pipeline at Connah's Quay

In the last consultation, we presented three options for the Above Ground Installation (AGI) at Flint, shown to the right. Overall, consultees showed little preference between the three options with most stating no preference. We did note concerns over impacts on Public Rights of Way and will assess these at the next stage of appraisal. Option 2 and 3 performed similarly in terms of the technical appraisal. Option 2 follows the same route as option G.

We decided Option 2 will be progressed as it:

- **Avoids impacting on any national or local designated landscape or ecology sites, whereas Option 1 would involve crossing Flint Mountain SSSI and Local Wildlife Site.**
- **Avoids impacts on setting of Scheduled Monument, unlike Option 1**
- **Does not impact on Crown Land (Option 1 does)**
- **Avoids residential areas with less potential for noise and vibration disruption compared to Option 1 near Flint.**
- **Located further away from Conservation Areas and Listed Buildings compared to Option 3**
- **Is a slightly shorter pipeline length than Option 1.**

1. A connection close to the A5119
2. A connection close to Coed Onn Road / Allt-Goch Lane
3. A connection close to Leadbrook Drive.



River Dee crossing variation

The initial consultation presented a potential crossover option at the River Dee meaning that Option G could use the cross-over to divert and cross the river at the same location as Option I (and vice versa). Responses received did not indicate a strong preference for either of the crossing options. Following further design analysis, we consider that Option G is the preferred option for the River Dee crossing because it:

- **Option G performs better in terms of constructability with less engineering risk and constraints, particularly in relation to avoiding the need to tunnel underneath the water treatment plant**
- **Option G has less space constraints than option I, and avoids public path width restrictions.**
- **Option G avoids impacting on registered Common land or the potential to encroach on MOD land, unlike Option I**
- **Avoids overlapping with employment and residential allocations in the emerging Flintshire Local Development Plan, compared to Option I.**



Connection from Ince to Stanlow

Our previous consultation presented two options for the 20-inch new CO₂ pipeline connection between Ince and Stanlow. Consultation feedback gave no preference on either option but queried the environmental impact on Ince Marshes which has been factored into the appraisal work. The reasons for selecting Option 1 are that it:

- **Performs better in engineering terms, making it lower risk.**
- **Has fewer complex crossings (Option 1 would cross the M56 twice).**
- **Is shorter and therefore has less impact and lower construction cost.**



The preferred CO₂ pipeline route

We continue to fine tune our route by talking to individuals, communities and local authorities, as well as liaising with engineering and environmental experts, to understand how we can best develop the pipeline including any mitigation proposals to minimise any potential adverse impacts.

The pipeline route outlined in this brochure represents our current preference, although it will continue to be refined up until we submit our application for development consent.

We would like to hear your views as they will help us in refining the route for the pipeline.

The preferred route has been divided into seven separate sections for ease of reference.

The following terms are used within the plans of each section shown below:

Draft Order Limits: The Draft Order Limits illustrate the provisional outer limits for which consent will be sought. This includes areas required for the construction and operation of the proposed development and areas for which powers are sought through the Development Consent Order ('DCO').

Newbuild Infrastructure Boundary: The Newbuild Infrastructure Boundary illustrates the areas within the Draft Order Limits for which new infrastructure, and associated temporary works, are proposed as part of the DCO.

The newly built CO₂ pipelines will be buried underground along their entire length. The minimum depth from the top of the pipe to the ground surface will be in accordance with relevant standards but is typically 1.2m in open cut sections and deeper for trenchless crossings to avoid existing services and physical obstructions.

The plans below also show the location of the proposed AGIs (Above Ground Installations) and Block Valve Stations (BVSs).

The AGIs are securely fenced compounds of varying size which form an essential part of the buried pipeline system. The AGIs provide the transition between the CO₂ pipeline system and the industrial CO₂ emitters and are designed to support the operation and maintenance of the pipeline network.

There are four AGIs included as part of the Proposed Development:

- Ince AGI, located adjacent to the existing CF Fertiliser plant, Cheshire.
- Stanlow AGI, located within the existing Stanlow manufacturing complex, Cheshire
- Flint AGI, located east of Allt Goch Lane, Flintshire.
- Northop Hall AGI

The four Above Ground Installations ('AGIs') will be located in compounds no greater than 80m x 70m in size (excluding its access track) with secure fencing up to 3m high incorporating a double access gate for vehicles. The compounds would include manually operated lighting for when the AGI is undergoing maintenance in low light conditions. It would not be permanently lit.

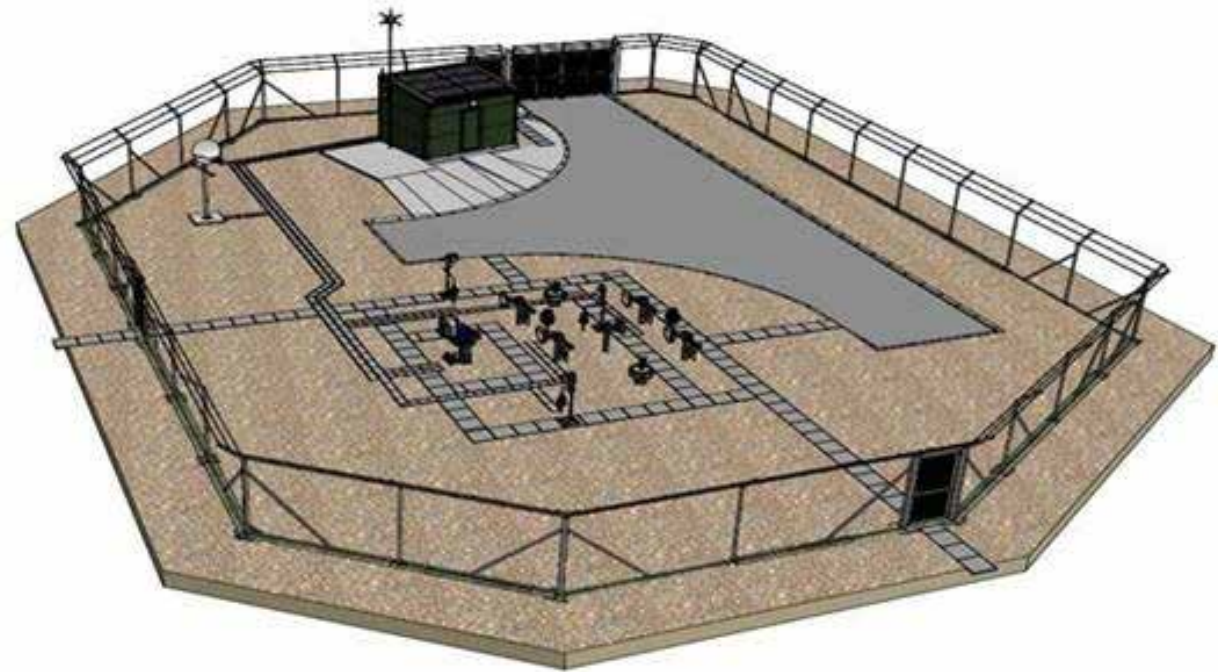
The AGIs will be designed to accommodate the following provisions:

- Pipeline inspection gauge (PIG) launcher facilities.
- Connection point, PIG receiver, and high-integrity pressure protection system (HIPPS).
- Associated infrastructure (control mechanisms, lighting, parking provisions, access arrangements, and electrical and instrumentation kiosks).

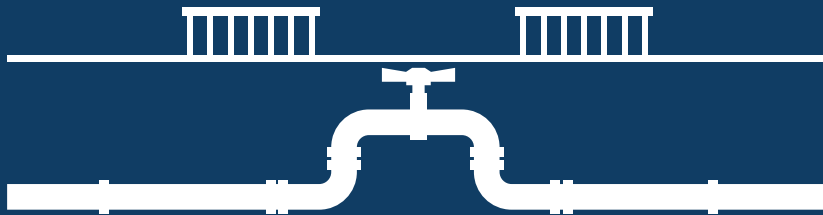
Each AGI compound would be appropriately screened with landscaping and planting, including trees and shrubs. A typical AGI is shown on the right.

The four AGIs will be Ince, Stanlow, Northop Hall and Flint.

Example of a typical AGI (Above Ground Installation)



The block valves will be installed below ground, with some elements of the Block Valve Station that will be visible above ground. The block valves will be enclosed within a fenced secure site.



Once we develop the designs for the pipeline in more detail, we will determine the precise location and sizes of these Block Valve Stations.

Example BVS (Block Valve System)

In some locations along the pipeline, installations called 'Block Valve Stations ('BVSs')' may be installed.

BVSs are used to isolate sections of pipeline for maintenance purposes. Leak detection systems installed along the pipeline will identify if a leak has occurred and at what location, following which the appropriate BVS would then be remotely closed to isolate that section of pipeline. Each BVS would also have a local bypass valve as a backup.

The BVSs will be buried, with only limited above ground visible elements including access covers and a containerised electrical and instrumentation kiosk. The depth of valve pit would depend on the location of the BVS, however the anticipated minimum depth of cover above the pipework ranges between 0.9m to 1.8m.

The BVSs would not be manned but would be monitored and controlled remotely. It is anticipated that each BVS will be located within a compound secure fencing up to 3m high incorporating a double access gate for vehicles. The compound would include manually operated lighting for when the BVS is undergoing maintenance in low light conditions. It would not be permanently lit.

Each BVS compound would be appropriately screened with landscaping and planting, including trees and shrubs.

A typical block valve is shown on the left.

There will be seven BVSs along the CO₂ pipeline.

BVS Name	Description and dimensions	Access
Stanlow AGI to Flint AGI pipeline		
Rock Bank	Rock Bank BVS is located within the Parish of Backford, between the settlements of Chorlton and Caughall. The compound will measure approximately 35m x 30m.	Access to the BVS will be via Chorlton Lane.
Mollington	Mollington BVS is located within the Parish of Mollington, approximately 300m west of the village of Mollington. The compound will measure approximately 35m x 30m.	Access to the BVS will be via Overwood Lane, which connects to the A540 Parkgate Road to the south.
Aston Hill	Aston Hill BVS is located within the Parish of Hawarden in an urban area between the settlements of Mancot, Pentre, Hawarden, Ewloe and Shotton. The compound will measure approximately 35m x 30m.	Access to the BVS will be via Lower Aston Hall Lane.

Flint Connection to Point of Ayr pipeline

Coed-y-Cra	Coed-y-Cra BVS is located in the Parish of Flint, in a rural area between the settlements of Flint and Pentre Halkyn. The compound will measure approximately 35m x 30m.	Access will be via the unnamed road which links Cornist Lane with Sylfaen Farm.
Cornist Lane	Cornist Lane BVS is located in the Parish of Flint, in a rural area between the settlements of Flint and Pentre Halkyn. The compound will measure approximately 35m x 30m.	Access will be via either Cornist Lane or Lleprog Lane.
Pentre Halkyn	Pentre Halkyn BVS is located in the Parish of Brynford, approximately 700m south of the village of Brynford. The compound will measure approximately 35m x 30m.	Access will be via the B5121 Ally Y Chwiler.
Babell	Babell BVS is located in the Parish of Ysceifog, on the outskirts of the settlement of Babell. The compound will measure approximately 35m x 30m.	Access will be via Hollywell Road



The proposed route in detail

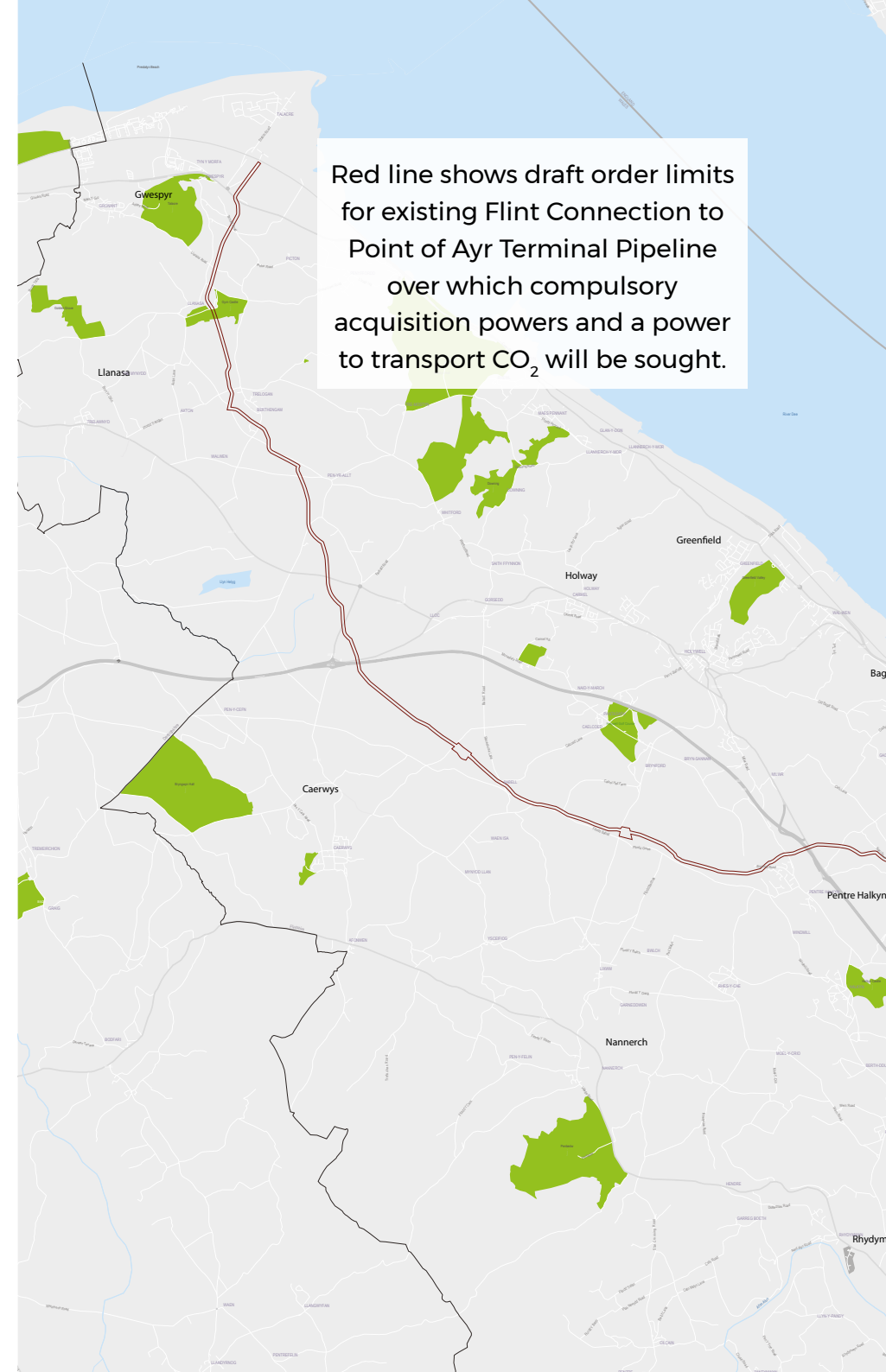
The development for which the DCO will be sought is:

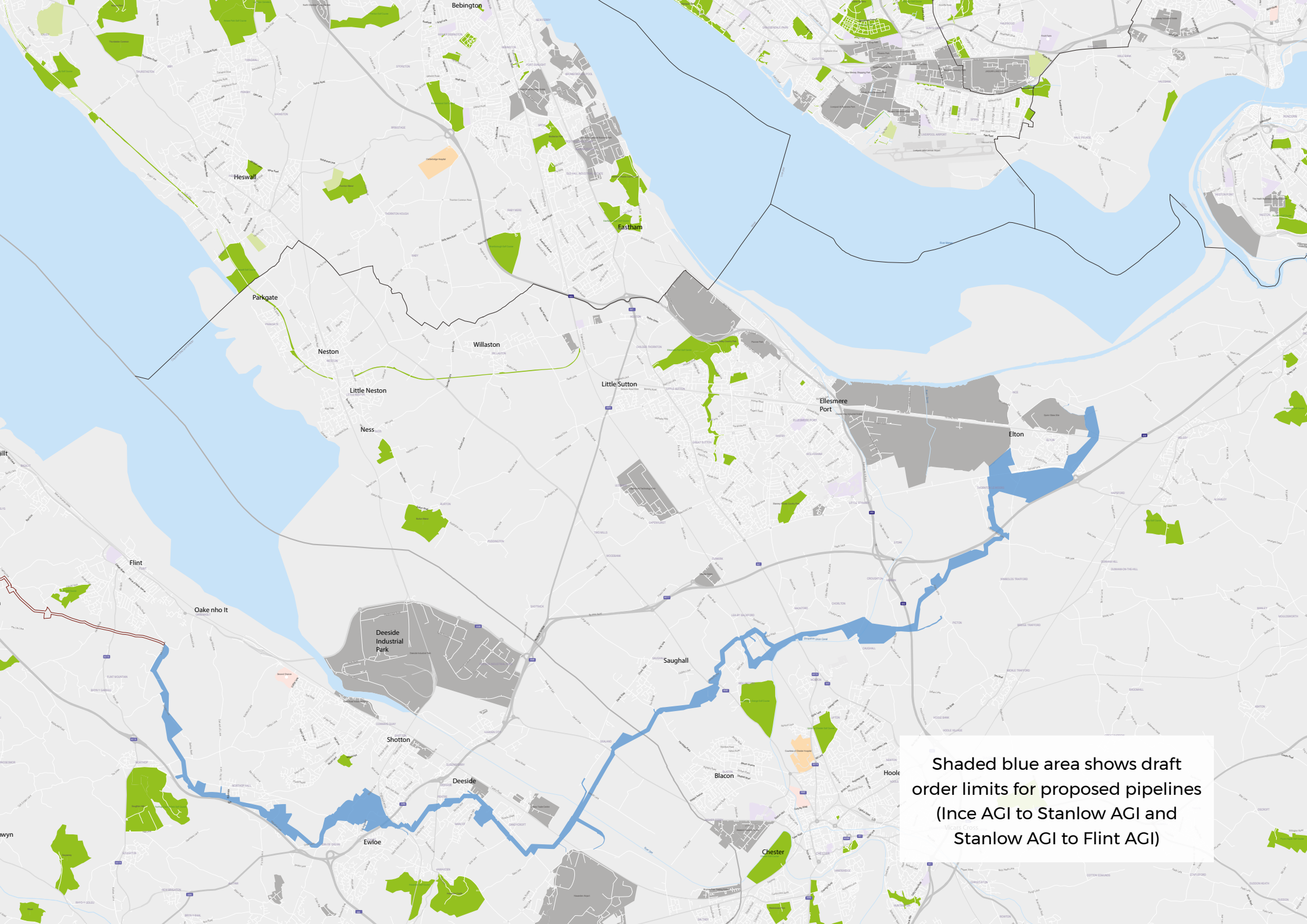
- a. Construction and use of Ince Above Ground Installation ('**AGI**') to Stanlow AGI pipeline (up to 20").
- b. Construction and use of Stanlow AGI to Flint AGI pipeline (36").
- c. Construction and use of Flint AGI to Flint Connection pipeline (24").
- d. The repurposing and use for CO₂ of the Flint Connection to Point of Ayr Terminal pipeline (24").
- e. Construction and use of Ince AGI.
- f. Construction and use of Flint AGI.
- g. Construction and use of Stanlow AGI.
- h. Construction and use of Northop Hall AGI.
- i. Construction and use of Block Valve Stations ('**BVSS**') located along the existing natural gas Flint Connection to Point of Ayr pipeline and Stanlow AGI to Flint AGI pipeline.

Items a-i together form the '**Pipeline**'

- j. Other infrastructure such as Cathodic Protection (CP) transformer rectifier cabinets.
- k. Ancillary works integral to the construction of the Pipeline including construction compounds, and access tracks.

All of items a-k together form the '**Proposed Development**'.





Shaded blue area shows draft order limits for proposed pipelines (Ince AGI to Stanlow AGI and Stanlow AGI to Flint AGI)



Section 1

Section 1 is located entirely within the Cheshire West and Chester Local Authority boundary, and spans four Parish boundaries (Ince, Elton, Dunham on the Hill and Hapsford, and the Cheshire West and Chester unparished area).

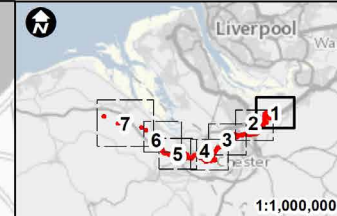
Section 1 captures the entire Ince to Stanlow CO₂ pipeline route, including the associated AGIs. It includes the Ince AGI, located adjacent to the existing CF Fertiliser Plant off Marsh Lane, and the Stanlow AGI, located within the existing Stanlow Manufacturing Complex which is located north of the A5117 and west of Elton Green.

Starting at the Ince AGI, the 20" pipeline heads approximately south crossing the Hapsford railway line (including a spur to an existing depot which serves the CF Fertiliser Plant). The route continues north of the M56 Chester Services (junction 14) before crossing the A5117 and heading in a south-westerly direction, south of Elton.

The route continues west before heading in a north-westerly direction towards Thornton-le-Moors. The route crosses the B5132 Cryers Lane, before heading northwards to the Stanlow AGI.



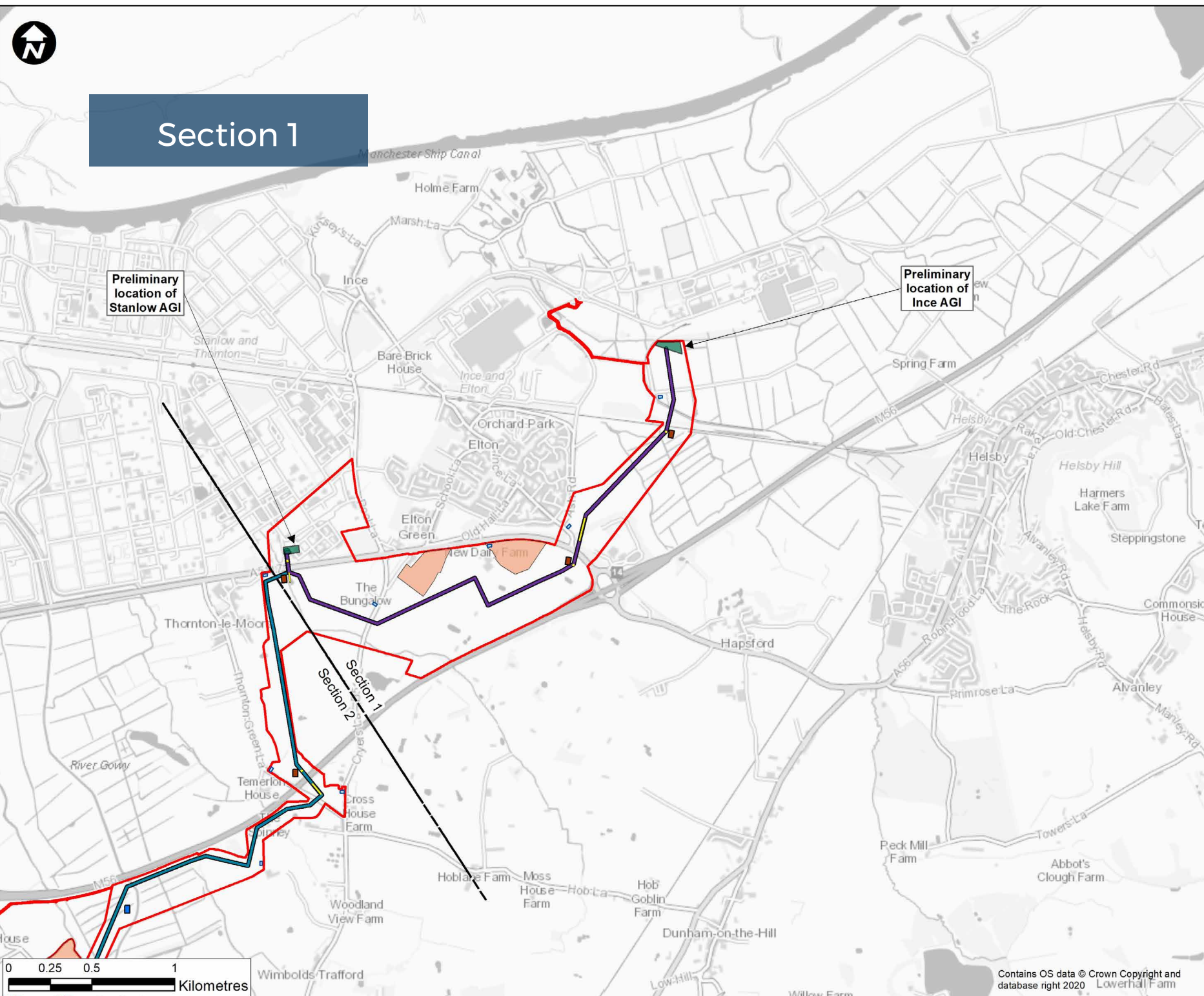
Section 1



- Key:**
- Section Dividing Line
 - Newbuild Infrastructure Boundary
 - Stanlow AGI to Flint AGI
 - Ince AGI to Stanlow AGI
 - Above Ground Installation (AGI)
 - Localised Compound
 - Equipment Yard
 - Groundwater storage and treatment area
 - Trenchless Crossing
 - Centralised Compound

Preliminary location of Stanlow AGI

Preliminary location of Ince AGI



Section 2

Preliminary location of Rockbank BVS

Chester and Birkenhead Railway Line North alternative

Shropshire Union Canal North alternative

Shropshire Union Canal South alternative

- Key:**
- Section Dividing Line
 - Newbuild Infrastructure Boundary
 - Stanlow AGI to Flint AGI
 - Stanlow AGI to Flint AGI Pipeline (Shropshire Union Canal North Alternative)
 - Stanlow AGI to Flint AGI Pipeline (Chester and Birkenhead Railway Line North Alternative)
 - Ince AGI to Stanlow AGI
 - Stanlow AGI to Flint AGI Pipeline (Shropshire Union Canal South Alternative)
 - Stanlow AGI to Flint AGI Pipeline (Chester and Birkenhead Railway Line South Alternative)
 - Above Ground Installation (AGI)
 - Block Valve Station (BVS)
 - Localised Compound
 - Equipment Yard
 - Groundwater storage and treatment area
 - Trenchless Crossing
 - Centralised Compound

1:1,000,000

Section 2

Section 2 is located entirely within the Cheshire West and Chester Local Authority boundary and spans four Parish boundaries (Thornton-le-Moors, Mickle Trafford & District, Wervin, and Backford). Section 2 signals the start of the Stanlow to Flint CO₂ pipeline and contains the Rock Bank BVS, located between the settlements of Chorlton and Caughall.

From the Stanlow AGI, the route of the Stanlow to Flint CO₂ pipeline heads south, crossing the A5117 School Lane before continuing on a southward trajectory east of Thornton le Moors and the Gowy Meadows Nature Reserve. The route crosses the M56 before heading in a south-westerly direction crossing the River Gowy and North Cheshire Way (long distance footpath). This section also has two offshoots for temporary construction access routes. The route crosses Picton Lane before heading south of Wervin and makes a sharp turn west before crossing the M53. From the M53, the route runs broadly westwards through arable fields to the north of Chester, crossing the Shropshire Union Canal where two options are under consideration.

- Shropshire Union Canal North: The pipeline route continues in a westerly direction and crosses the Shropshire Union Canal approximately 420m west of Wervin New Hall before heading west towards Chorlton Lane.
- Shropshire Union Canal South: The pipeline route continues in a south-westerly direction for 300m before heading west and crossing the Shropshire Union Canal 600m south-west of Wervin New Hall. The pipeline continues in a north-westerly direction towards Chorlton lane.

The pipeline route then continues in a westerly direction before crossing the A41 Liverpool Road.



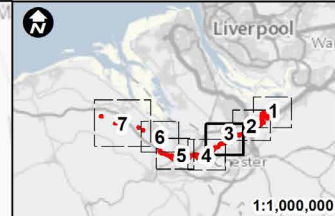


Section 3

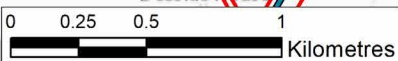
Chester and Birkenhead
Railway Line North alternative

Chester and Birkenhead
Railway Line South alternative

Preliminary
location of
Mollington BVS



- Key:**
- Section Dividing Line
 - Newbuild Infrastructure Boundary
 - Stanlow AGI to Flint AGI
 - Stanlow AGI to Flint AGI Pipeline (Chester and Birkenhead Railway Line North Alternative)
 - Stanlow AGI to Flint AGI Pipeline (Chester and Birkenhead Railway Line South Alternative)
 - Block Valve Station (BVS)
 - Localised Compound
 - Equipment Yard
 - Trenchless Crossing
 - Centralised Compound

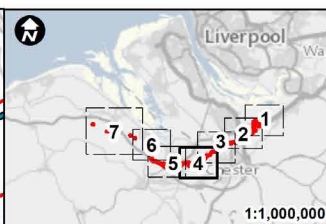
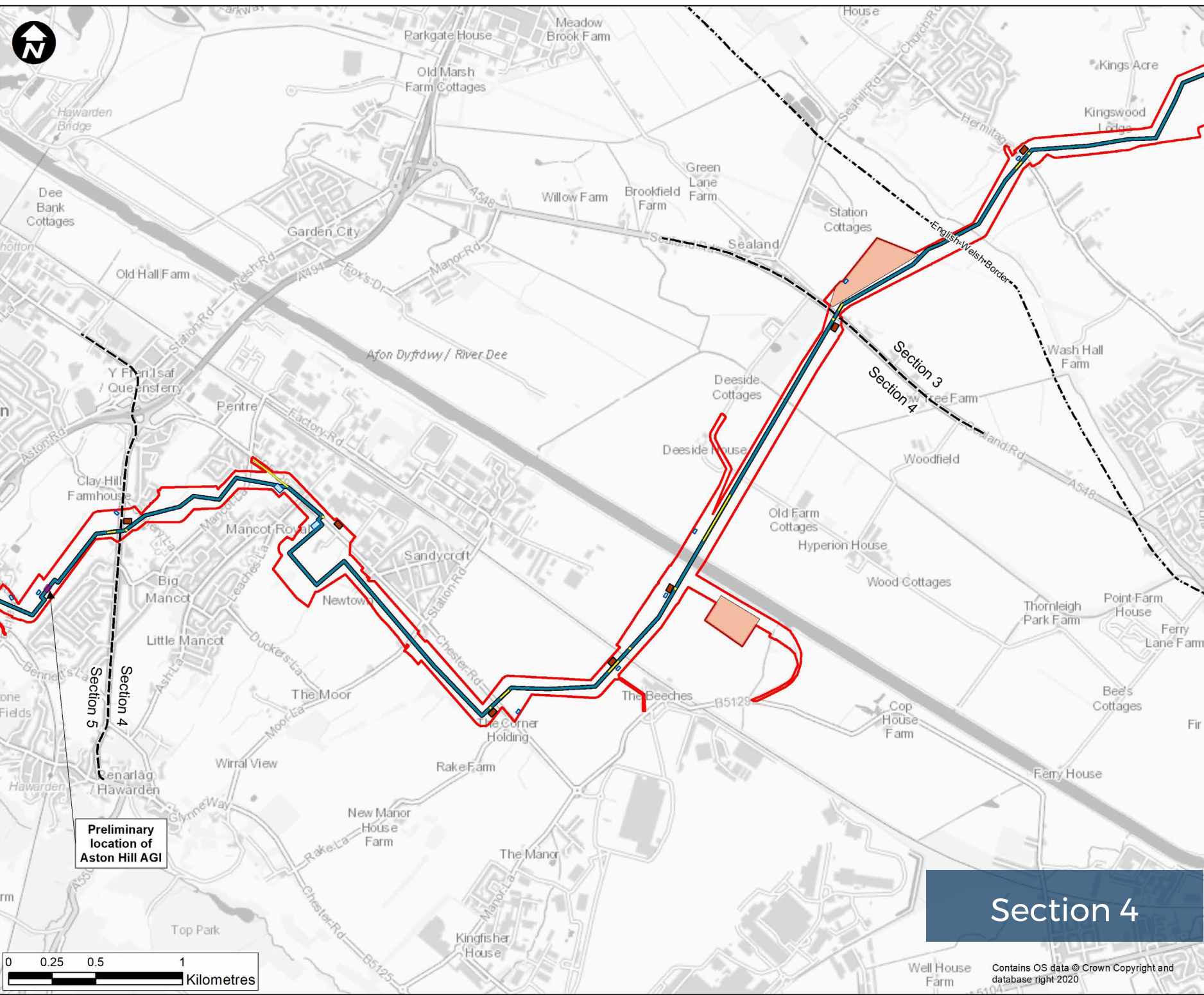


Section 3

Section 3 is located predominantly within the Cheshire West and Chester Local Authority boundary, but part of the Section is located within Flintshire Local Authority boundary. It spans five parish and community council boundaries (Backford, Lea-by Backford, Mollington, Saughall and Shotwick Park, and Sealand). This section includes the Mollington BVS. Heading west from the A41, the route crosses the Chester and Birkenhead Railway Line, where two crossing options are under consideration.

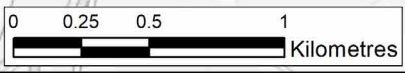
- Chester and Birkenhead Railway Line North: The pipeline route heads in a north-westerly direction for approximately 500m crossing Station Road before turning back in a westerly direction to cross the Chester and Birkenhead Railway Line and continue towards Mollington.
- Chester and Birkenhead Railway Line South: The pipeline route heads in a south-westerly direction for approximately 500m crossing the Chester and Birkenhead Railway Line before turning back in a north-westerly direction to cross Station Road. The route then take a sharp turn to head a westerly direction towards Mollington. The route starts to head in a south-westerly direction, avoiding the settlement of Mollington, before crossing the A540 Parkgate Road. At this point, the route exits the Cheshire Plain and crosses the border into Wales. At the border between Wales and England, the route continues to head in a south-westerly direction and crosses the A548 Sealand Road.





- Key:**
- Section Dividing Line
 - Newbuild Infrastructure Boundary
 - Stanlow AGI to Flint AGI
 - Block Valve Station (BVS)
 - Localised Compound
 - Equipment Yard
 - Trenchless Crossing
 - Centralised Compound

Section 4



Section 4

Section 4 is located entirely within the Flintshire Local Authority boundary, and spans three Community boundaries (Sealand, Queensferry, and Hawarden).

From the A548 Sealand Road, the route crosses the River Dee (Afon Dyfrdwy) and North Wales Coast Line before turning west. There are three offshoots to allow for the construction of temporary access roads in this location. The route crosses the B5129 Chester Road East heading north-west towards the built-up suburban edge of Sandycroft, Mancot, and Queensferry.

The route weaves past residential areas and crosses several minor roads before turning westwards and ending at Willow Park. Heading in a westerly direction, the route weaves through the residential areas of Mancot, Pentre, before crossing the A550 Gladstone Way.



Section 5

Section 5 is located entirely within the Flintshire Local Authority boundary, and spans three Community boundaries (Hawarden, Northop Hall, and Northop). It includes the Aston Hill BVS and Northop Hall AGI.

From the A550 Gladstone Way, the route heads west before crossing the Wrexham to Bidston (Borderlands) railway line and A494 Aston Expressway. At this point, the section is wider to account for several route options which are being considered:

- **Ewloe North: the route would head north crossing Old Aston Hill and Shotton Lane before heading in a south-westerly direction towards the B5125 Holywell Road.**
- **Ewloe Central: the route would head west underneath Church Lane before heading north of Aston Hill Farm. The route would cross Shotton Lane before heading in a south-westerly direction towards the B5125 Holywell Road.**
- **Ewloe South: the route would head west underneath Church Lane before heading south of Aston Hill Farm. The route would cross Shotton Lane before heading in a south-westerly direction towards the B5125 Holywell Road.**

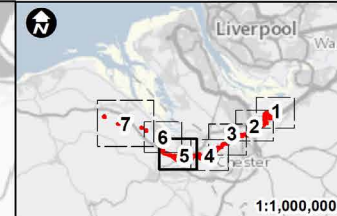
These options are being considered to take account of environmental, planning, and technical constraints in the area. All three route options re-convene just south of the B5125 Holywell Road before heading in a south-westerly directions towards the A55 North Wales Expressway. The route then follows the path of the A55 North Wales Expressway heading in a north-westerly direction towards Northop Hall.

Approximately 600m south east of Northop Hall, the section widens again to account for two route options which are being considered:

- **Alltami Brook North: the route would continue in a northerly direction before heading westerly and crossing the crossing Robin Hood Lane followed by the Alltami Brook approximately 200m east of the Chequers Hotel.**
- **Alltami Brook South: the route would continue along the same trajectory crossing Robin Hood Lane followed by the Alltami Brook approximately 150m south east of the Chequers Hotel.**

These options are being considered to take account of environmental, planning, and technical constraints in the area. Both options reconvene approximately 90m south of the Northop Hall Hotel. The route continues in a north-westerly direction skirting around the south of Northop Hall. The route continues to head west before heading north to cross the B5125 Stamford Way before reaching the B5126 Connah's Quay Road where this section of the route ends.

Section 5



- Key:**
- Section Dividing Line
 - Newbuild Infrastructure Boundary
 - Stanlow AGI to Flint AGI
 - Stanlow AGI to Flint AGI Pipeline (Ewloe South Alternative)
 - Stanlow AGI to Flint AGI Pipeline (Alltami Brook South Alternative)
 - Stanlow AGI to Flint AGI Pipeline (Ewloe North Alternative)
 - Stanlow AGI to Flint AGI Pipeline (Ewloe Central Alternative)
 - Stanlow AGI to Flint AGI Pipeline (Alltami Brook North Alternative)
 - Above Ground Installation (AGI)
 - Block Valve Station (BVS)
 - Localised Compound
 - Equipment Yard
 - Trenchless Crossing
 - Centralised Compound

Ewloe North alternative

Ewloe Central alternative

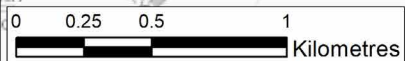
Alltami Brook North alternative

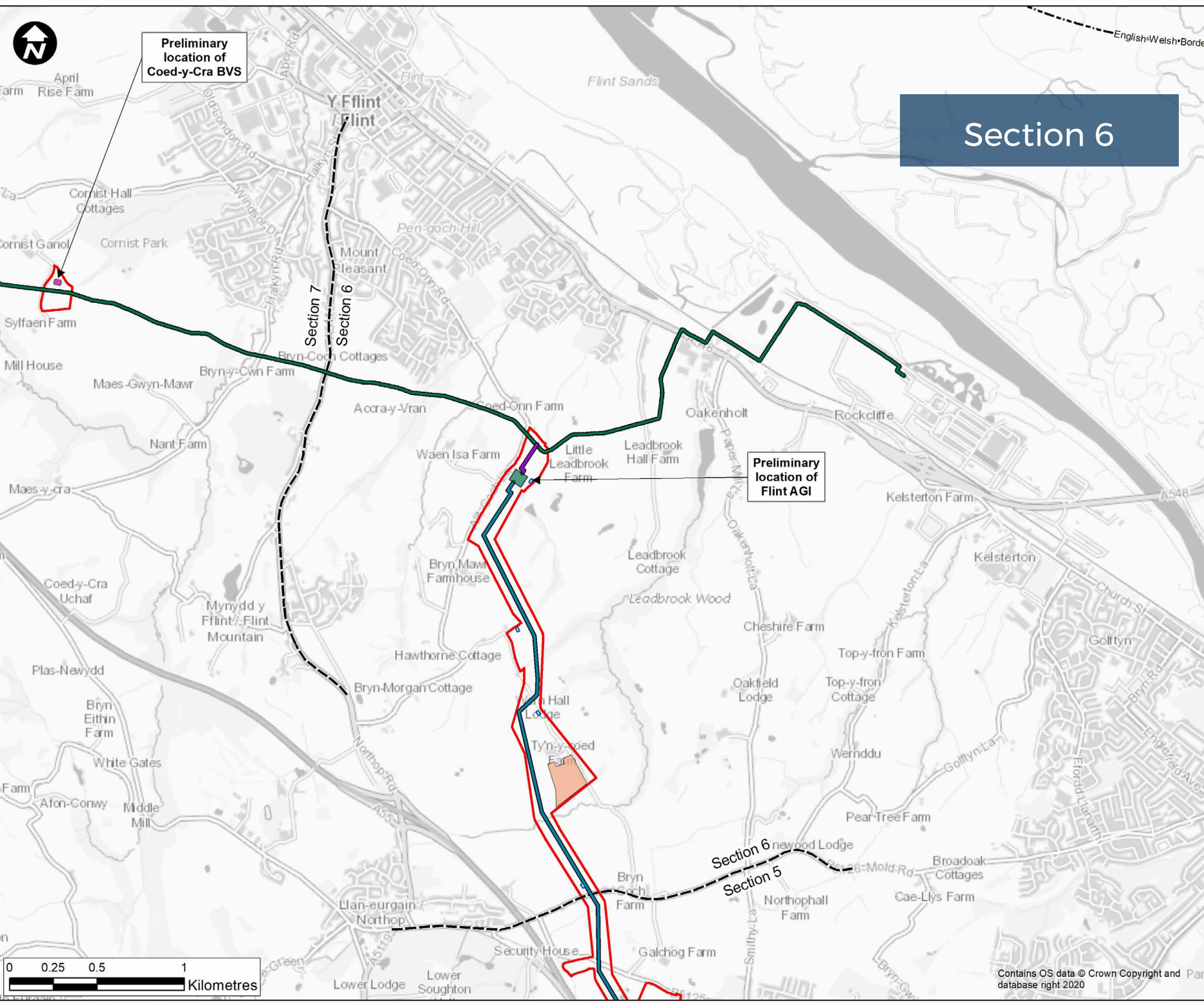
Preliminary location of Northop Hall AGI

Alltami Brook South alternative

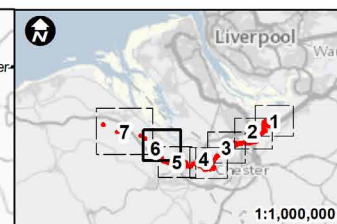
Ewloe South alternative

Preliminary location of Aston Hill AGI

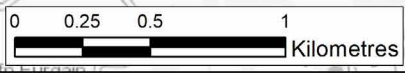




Section 6



- Key:**
- Section Dividing Line
 - Newbuild Infrastructure Boundary
 - Stanlow AGI to Flint AGI
 - Flint AGI to Flint Connection Pipeline
 - Existing Connah's Quay to Point of Ayr Pipeline
 - Above Ground Installation (AGI)
 - Block Valve Station (BVS)
 - Localised Compound
 - Centralised Compound



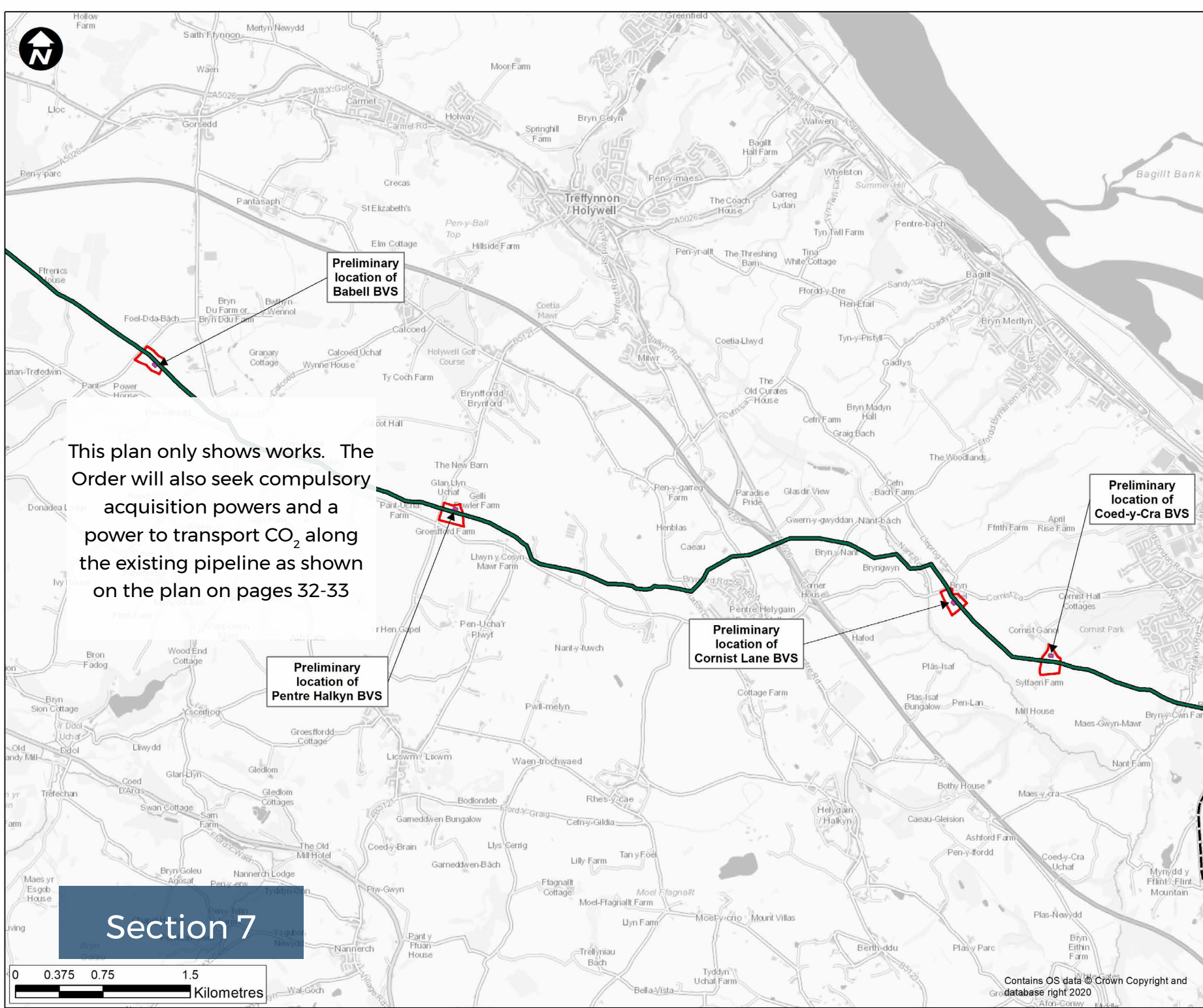
Section 6

Section 6 is located entirely within the Flintshire Local Authority boundary and spans three Community boundaries (Northop, Flint and Halkyn). The Flint AGI is located within this Section, and it signals the end of the Stanlow to Flint CO₂ pipeline. This section also includes the section of 24" underground pipeline which connects the Flint AGI with the existing Flint to PoA pipeline.

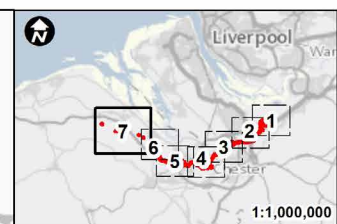
From Connah's Quay Road, the route heads northwards, running east of Leadbrook Wood. The section is wider here to accommodate for temporary working areas, and to allow for flexibility in the design. The route continues northwards, running parallel with Alt Goch Lane, before reaching the Flint AGI.

From the Flint AGI, the short section of 24" pipeline runs for approximately 200m in a north-easterly direction before connecting into the existing Flint Connection to Point of Ayr pipeline.



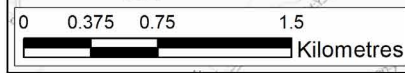


This plan only shows works. The Order will also seek compulsory acquisition powers and a power to transport CO₂ along the existing pipeline as shown on the plan on pages 32-33



- Key:**
- Section Dividing Line
 - Newbuild Infrastructure Boundary
 - Existing Connah's Quay to Point of Ayr Pipeline
 - Block Valve Station (BVS)

Section 7



Section 7

Section 7 is located entirely within the Flintshire Local Authority boundary and comprises the four new BVSs located along the existing Flint Connection to Point of Ayr pipeline. Coed-y-Cra and Cornist Lane BVS are located within the Flint Community, Pentre Halkyn BVS is located within Brynford Community and Babell BVS is located within Ysceifiog Community. All are located in rural locations.

Each area shown accounts for the extent required for temporary working areas as well as the footprint of the BVS, however the final dimensions of the BVSs are yet to be confirmed.

Coed-y-Cra BVS is located to the south west of Flint, between Sylfaen Farm and Cornist Ganol, and to the south west of Cornist Wood.

Cornist Lane BVS is located to the west of Flint, immediately adjacent to Cornist Lane and 150m east of Nant-y-Flint.

Pentre Halkyn BVS is located between Babell and Pentre Halkyn, immediately adjacent to the B5121 Allt Y Chwiler. It is located between Gelli Fowler Farm and Groesfford Farm.

Babell BVS is located in the Parish of Ysceifiog, on the outskirts of the settlement of Babell.



Constructing the new CO₂ pipeline

How long will it take?

We anticipate that the construction of the entire new CO₂ pipeline will take approximately 16 months. Installation of the pipeline itself should take around one to two months in each location, although in complex areas it might take longer.

How will we lay the pipeline?

For much of the pipeline, we plan to use an open trench technique. This will involve the digging of soil, lowering the pipe into the trench, and backfilling it with the excavated soil. Although the pipeline has a maximum diameter of about 36 inches (or 91cm), the space needed to safely install this type of pipeline is usually between 20m and 30m. This width allows enough space to dig the trench and lay the pipe, as well as providing space for storing soil during installation and enabling access for vehicles.

At times, we will need to use trenchless techniques to install the pipeline, for example when installing it under railway lines, major roads and riverbeds. In these cases, we will use methods such as directional drilling or auger boring. These techniques allow us to install the pipeline while allowing roads and railways to remain open and rivers to continue flowing.

– **Horizontal drilling:** A tunnel is drilled below a river, road or other crossing point. The pipe is then pulled through the drilled tunnel.

– **Auger boring:** A tunnel is drilled into the ground using an auger at the same time as laying the pipe into the tunnel.

OPEN TRENCH TECHNIQUE



HORIZONTAL DRILLING TECHNIQUE



What will we do with the land when we're done?

Once the pipeline installation is complete, we will reinstate the land as closely as possible to its original condition. We will replant or replace any hedges, fences or other ground features after construction.

AUGER BORING TECHNIQUE



Construction management

Where will we lay the pipeline?

We will need to install the CO₂ pipeline on private land, but we will not install any pipeline under homes.

During construction, we will need temporary facilities for site teams with offices, staff welfare and storage.

How will we minimise the construction impact?

As we continue to develop our designs and define how we will construct the infrastructure we need, we will produce a Construction Environmental Management Plan. This will be used to minimise the effects of construction on local people and the environment as much as possible. It will set a framework to monitor and manage potential impacts during the construction process. As part of this, we are committed to the following measures:

- **Protecting air quality by implementing a dust management plan.**
- **Protecting biodiversity by complying with all relevant UK and European Union legislation.**
- **Complying with all relevant guidelines relating to soil and geology and reusing materials where possible.**
- **Reducing the impact of noise on local communities throughout construction and adhering to best practice wherever possible.**



Preliminary Environmental Information Summary

The aim of Preliminary Environmental Information is to provide consultees with information to help them develop an informed view of the likely significant effects of the proposed development, as they are understood now, given the information currently available. This section includes information from the 'non-technical summary' of the Preliminary Environmental Information Report ('**PEIR**'). The full PEIR is a longer technical report, which is available on the project website [\[REDACTED\]](#).

Air Quality

In general, given the predominantly rural nature of the study area, existing air quality is considered to be 'good', this means that the concentrations of airborne pollutants are well within the air quality objectives.

The preliminary assessment has identified that there will be no significant adverse effects during the construction and decommissioning phases of the Proposed Development. Measures to control airborne pollutants will be implemented through good site practice and a Construction Environmental Management Plan.

The preliminary assessment has identified that there will be no significant adverse effects on air quality during the operation of the Proposed Development. There will be a requirement to vent CO₂ at the AGIs during planned maintenance activities, however, the design of the venting equipment at the AGIs will ensure that any airborne pollutants released into the atmosphere are controlled.

Climate resilience

The region is among the more exposed parts of the UK, being relatively close to the Atlantic and containing large uplands, therefore the region experiences strong winds associated with the passage of deep areas of low pressure close from the Atlantic. Flood Mapping of the UK and Wales indicates a high likelihood of flooding throughout the Proposed Development.

Climate change is projected to lead to wetter winters and drier summers although natural variation, including extreme events such as storms and heatwaves will feature in these trends. Rising winter temperatures are likely to reduce the amount of precipitation that falls as snow in winter. It is also predicted that climate change will lead to hotter summers and warmer winters. By 2050, it is likely that sea level rise may pose a flood risk to the Proposed Development.

The preliminary assessment has identified that there will be no significant adverse effects during the construction and decommissioning phases of the Proposed Development. Measures to reduce the vulnerability of construction workers and constructions compounds to climate change will be implemented through good site practice and a Construction Environmental Management Plan.

The assessment identified that the vulnerability of the operation of the Proposed Development could be impacted by climate change. For example, precipitation could flood or damage above ground compounds, and extreme temperature events could cause joints to expand and cause increased maintenance. Wind could also damage above ground infrastructure, and sea level rise could deteriorate structures. Further consideration will be given to design-based mitigation to reduce any potential effects as the design of the Proposed Development evolves.

Cultural heritage

Within the Newbuild Infrastructure Boundary, there are two above ground assets, a scheduled monument (the late medieval moated site, fish pond, and connecting channel at Elton) and a listed building (The Grade II Church of the Holy Spirit). Two Conservation Areas (Thornton-le-Moors and Chester Canal (West)) also extend into the Newbuild Infrastructure Boundary. Further above ground assets exist within 1km of the Newbuild Infrastructure Boundary.

In terms of potential below-ground archaeology, the desk-based research has identified the potential for palaeoenvironmental remains, prehistoric remains, roman remains, early medieval remains, later medieval remains, and post-medieval remains within the study area.

There may be some direct impacts to unknown below-ground archaeology, during construction of the Proposed Development. An archaeological mitigation strategy will be developed alongside key stakeholders once the results of the geophysical survey work are available.

There may be some temporary, indirect effects of the Proposed Development on above-ground assets during construction, notably where construction areas impact the setting of nearby assets.

There are not expected to be significant effects on above ground heritage assets during operation. This is because any above ground infrastructure only is anticipated to have minimal effects on the setting of above ground assets in the vicinity of the Proposed Development.

Biodiversity

Within the Newbuild Infrastructure Boundary and the surrounding area, the surveys carried out to date have identified species (including great crested newt, bats, badger, otter, water vole, barn owl, breeding birds, wintering birds and invasive species) and habitats (including ancient woodland, other woodland types, marshes, hedgerows, standing and running water and floodplains) that are protected by law.

The study area also includes specific sites that are designated for nature conservation (on a national and international scale), including nine internationally designated sites and

thirteen nationally designated sites within 10km of the Proposed Development.

The preliminary assessment has identified that there will be no significant adverse effects during the construction, operation, and decommissioning phases of the Proposed Development. However, mitigation measures to reduce any potential effects on biodiversity will be implemented through good site practice and a Construction Environmental Management Plan.

In addition, ongoing design work will focus on the avoidance of valuable habitats, identified through the survey work, and seek opportunities for biodiversity enhancement measures. This may include habitat creation through the planting of shrubs and trees.

Greenhouse gases

The assessment considered the estimated green house gas emissions produced by the Proposed Development during construction as a result of the transport of materials to site and the machinery and equipment used.

The assessment concluded that the magnitude of green house gas emissions during construction and decommissioning will be significant. However, the design of the Proposed Development will consider the implementation of mitigation measures to further reduce the green house gas emissions produced. These measures will include using locally sourced materials and local waste disposal facilities, where available, during construction.

During operation, the Proposed Development, in combination with other components of the Project would significantly reduce the amount of green house gas entering the atmosphere. As part of the on-going design work, consideration will be given to the inclusion of high efficiency mechanical and electrical equipment as part of the operation and maintenance of the Proposed Development.

Water environment and flood risk

The preliminary assessment has identified that there will be no significant adverse effects during the construction, operation, and decommissioning phases of the Proposed Development. However, mitigation measures to reduce any potential effects on sensitive receptors will be implemented through on-going design work (to avoid sensitive areas and reduce vegetation clearance), good site practice (including sediment and pollution control mechanisms), and a Construction Environmental Management Plan.

During operation, it is possible that there would be significant permanent effects on groundwater. This is to be confirmed once detailed design information is available.



Landscape and visual

During construction, the clearance of vegetation and presence of construction equipment/activities would introduce adverse visual effects on a number of residential and recreational receptors and adverse landscape effects on the local landscape character. However, the design of the Proposed Development will consider the implementation of mitigation measures to reduce any adverse effects. These measures may include avoiding areas of vegetation, locating construction compounds away from residential properties, and temporary screening.

During operation, adverse landscape and visual effects are anticipated around the AGIs and BVSs. However, as part of the ongoing design work, landscape mitigation proposals (including tree and hedgerow planting) will be considered which, over time, will reduce effects. In addition, AGIs and BVSs will be sited to ensure landscape and visual impacts are minimised where practicable.

Materials and waste

The preliminary assessment identified that there are currently no severe supply issues regarding supply and stock of key construction materials. In combination with the current information available for the Proposed Development, the potential risk to the construction supply chain is not significant.

The Proposed Development passes through and close to several mineral safeguarding areas. Therefore, the Proposed Development has the potential to sterilise these mineral sites by preventing future extraction of the mineral resource. A Mineral Resource Assessment will therefore need to be prepared in order to fully assess the impacts of the Proposed Development on these natural assets.

The current land use within the Newbuild Infrastructure Boundary generates minimal volumes of waste. However, forecast analysis of remaining landfill capacity in the North West of England and North Wales suggests that in the absence of future provision, landfill capacity by the completion of the construction phase will be very limited. Therefore, construction methods and activities will need to consider measures for reducing waste as far as practicable.



Major accidents and disasters

The preliminary assessment has determined that all major accidents and disasters events of relevance to the Proposed Development would be managed through the implementation of mitigation actions to be 'as low as reasonably practicable'. Therefore, no significant effects are predicted to occur during construction, operation, or decommissioning.

Mitigation actions would include a programme of hazard studies to produce an inherently safe design and to ensure residual risks are managed, and the implementation of various environmental, health and safety management systems.

Noise and vibration

The preliminary construction assessment focussed on key activities including open-cut trenching, trenchless crossing techniques, AGIs, BVSs, and construction compounds. The assessment identified the potential for short-term effects on receptors located in close proximity to some of the key construction activities.

Mitigation during the construction and decommissioning phases of the Proposed Development will include Best Practicable Means (for example, choosing low noise equipment and optimising the location of equipment/activities). Further measures to reduce noise levels during construction, including localised noise screening, the duration of key activities, and limiting night-time working, will be considered.

The preliminary operational assessment focussed on the potential for adverse effects arising from the operation of the AGIs and BVSs. At this stage, no significant effects have been identified based on the information available for the Proposed Development and background noise measurements. However, operational noise limits will be discussed with the Environmental Health Departments within each local planning authority.



Population and human health

The preliminary assessment has identified that, during construction, the Proposed Development has the potential to:

- Disrupt access to private property and community land and assets.
- Disrupt recreational routes for walkers, cyclists, and horse riders.
- Disrupt the use of agricultural land and property.
- Impact on human health (through increases in noise and air pollution, visual amenity, and a reduction in physical activity).

Noting the above, mitigation measures to reduce any potential adverse effects will be considered and implemented as part of the Proposed Development. Mitigation is likely to include specific measures detailed within a Construction Environmental Management Plan and Construction Traffic Management Plan. This could include, for example, maintaining vehicular access to private properties, diversionary routes for Public Rights of Way, localised noise screening, and a communication strategy which keeps residents

informed of all construction activities.

Traffic and transport

Given the temporary nature of the construction works and following the implementation mitigation measures, for example implementing a Construction Traffic Management Plan (CTMP), there are not expected to be any significant effects on traffic and transport during construction. The CTMP would include measures such as community engagement, implementation of traffic management and specified HGV construction traffic routes, wheel cleaning facilities, and HGV timing restrictions.

The operation of the Proposed Development would not create any notable increase in movements of vehicles, only movements associated with maintenance activities.

Lands and soils

The study area is predominantly agricultural in nature; however, the baseline assessment identified the presence of historical and current land uses which required further consideration as part of the preliminary assessment, including:

- Historical ground works (known as made ground) which may have introduced contaminants into the soil or water within the study area.
- Pockets of industrial land use, particularly around the Stanlow Manufacturing Complex.
- Operational and historic landfill sites.
- Strategic road and rail infrastructure.

The preliminary assessment has identified that there will be no significant adverse effects during the construction, operation, and decommissioning phases of the Proposed Development. However, mitigation measures to reduce any potential effects on sensitive receptors (vulnerable to contamination), agricultural soil, and mineral resource allocations, will be implemented through on-going design work (to avoid sensitive areas), good site practice and a Construction Environmental Management Plan.

Next steps

Further survey and assessment work will be undertaken and will feed into the design of the Proposed Development.

The assessments presented in the PEIR will be revisited once the design of the Proposed Development has been finalised, and complete detailed design information and data is available.

The results of the further surveys and assessments will be presented as part of the Environmental Statement submitted alongside the DCO Application.



What happens next?

We are committed to involving the local community and our stakeholders at every stage of the CO₂ pipeline development and the wider HyNet North West Project.

We want to ensure that everyone has the opportunity to have their say on how we develop the best project for local communities, the surrounding landscape and the environment. This consultation will help inform our proposals and the Secretary of State's decision on whether to approve our CO₂ pipeline.

We will use the feedback and information received as part of this consultation, as well as outputs from ongoing engineering work and the environmental studies we are undertaking, to develop a more detailed route for the new CO₂ pipeline.

There will also be work happening in parallel on other elements of HyNet North West: a pipeline to transport hydrogen around the North West, hydrogen generation in Stanlow and underground hydrogen storage in salt caverns near Northwich. There will be further opportunity to have your say on these elements of HyNet as they progress.



How to get involved

This consultation will be open from 9 February to 22 March 2022.

Please provide your comments by 11.59pm on 22 March 2022. You can find more information on our consultation and provide your comments on our HyNet Hub by visiting: [\[redacted\]](#)

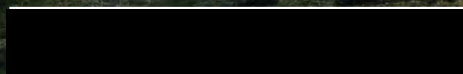
We will be holding three live online consultation events and

seven face-to-face events as part of this consultation. This will give you the opportunity to hear more about the proposals and raise any questions you may have to the project team.

You can find more details on how to attend these events on the HyNet Hub: [\[redacted\]](#).

HyNet North West

Hard copies of the Consultation Documents are available on request. Copies of the consultation brochure and non-technical summary of the PEIR will be provided free of charge. Due to the size of the PEIR as a detailed technical document, a charge of £200 will be made for the printing and delivery of the full PEIR upon request. This consultation brochure can also be made available in large print format, braille or other languages upon request.



0203 116 5919



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Consultation Banners

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HyNet North West

About HyNet North West

HyNet North West is a ground-breaking energy project that will unlock a low carbon economy for North West England and North Wales to put the region at the forefront of the UK's drive to net zero. HyNet will produce low carbon hydrogen to replace the fossil fuels we use to fuel our industry, transport and to heat our homes.

HyNet will also capture and lock away carbon dioxide (CO₂) emissions produced by the energy intensive industries which make the products we rely on every day.

We are in a climate emergency and we need to act quickly to reduce our emissions. HyNet gives the region a solution which can be rolled out to reduce the region's CO₂ emissions this decade. The project comprises of several different elements, including upgrades to existing facilities as well as the construction of new infrastructure.

HyNet is the UK's leading industrial decarbonisation project, with the North West and North Wales being selected by Government as one of only two regions to begin decarbonising from the mid 2020s, bringing economic and environmental benefits to the area and across the UK.



[www.hynet.co.uk](#)



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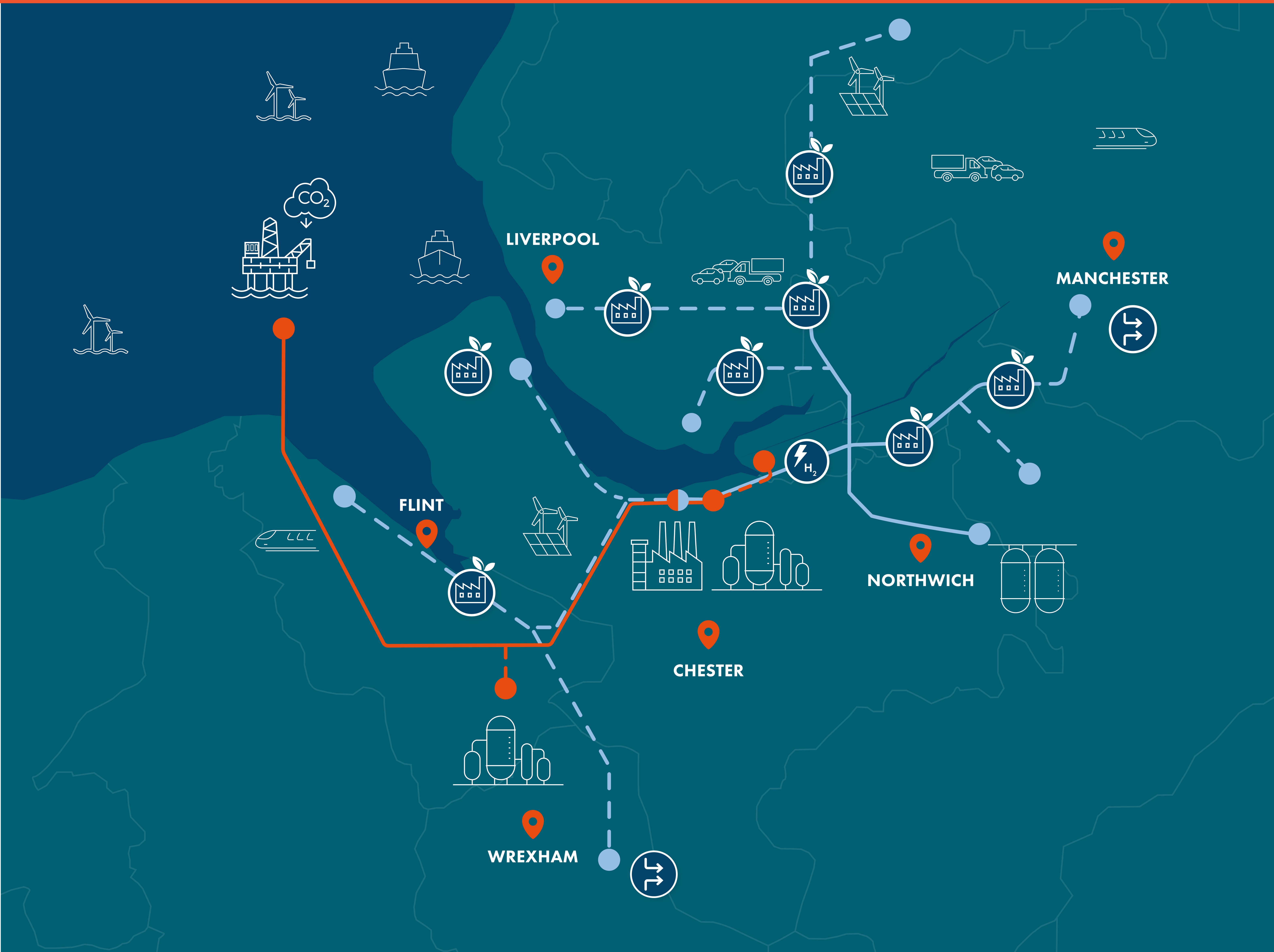


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HyNet North West



The HyNet projects

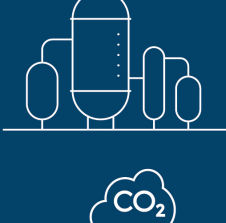







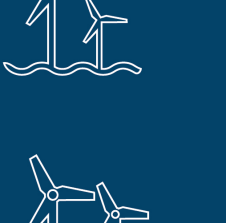
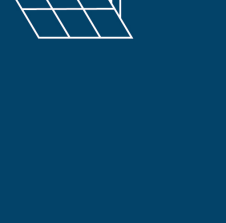

The element of HyNet that this consultation relates to is an underground pipeline that will safely transport CO₂ from existing local industry and the new HyNet hydrogen production plant at Stanlow, to be permanently stored offshore in depleted gas reservoirs under Liverpool Bay.

We understand how important it is to listen to views from those that live and work near the proposed development. We therefore would like to hear your views on our proposals to install a new CO₂ pipeline between Stanlow in Cheshire and Flint in North Wales. We will also repurpose an existing natural gas pipeline to transport CO₂ between Flint and the existing Point of Ayr Terminal in North Wales.

The CO₂ pipeline will include a number of Above Ground Installations (AGIs) and Block Valve Stations (BVSs) along the route.

A separate consultation is being held on proposals for a hydrogen pipeline.

KEY

- INITIAL PHASES OF CADENT'S H₂ PIPELINE
- - - FUTURE PHASES OF CADENT'S H₂ PIPELINE
- CO₂ TRANSPORTATION AND STORAGE SYSTEM
- - - FUTURE CO₂ PIPELINE CONNECTIONS
-  INDUSTRIAL CO₂ CAPTURE
-  CO₂ STORAGE
-  LOW CARBON H₂ PRODUCTION
-  UNDERGROUND H₂ STORAGE
-  INDUSTRIAL H₂ USER
-  FLEXIBLE H₂ POWER GENERATION
-  CO₂ SHIPPING
-  H₂ BLENDING FOR HOMES AND BUSINESS
-  H₂ FUELLING FOR TRANSPORT
-  H₂ FROM OFFSHORE WIND
-  H₂ FROM SOLAR AND WIND



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